1	Parameters
1.1 0	${\bf Ask_for_CMS_luminosity_calculations}$
1.2 0	Ask_for_trigger
1.3 0	Ask_for_trigger_data_bunch_num
1. 4	Collect Cut Diagnostic Data
$\begin{array}{c} 1.5 \\ 0 \end{array}$	${\bf DoNotSaveEpsFiles}$
1.6 60000	${\bf MaxNumber Of Events To Analyze}_0$
1.7 0	${\bf MaxNumber Of Events To Analyze Is Set}$
1.8	${\bf Near Far RP Units Distance M}$
1.9 2	ReducedBinaryDataset
1.10	0 SaveReducedBinaryDataset

1.12 analytical_acceptance_calculation 1
1.13 pile_up_inefficiency_correction_percent
${\bf 1.14 vertical_RP_position_beam_sigma}$
2 Settings
2.1 Fill_number 7301
2.2 Input_directory root://eostotem.cern.ch//eos/cms/store/group/phys_diffraction/fnemes/E_CM_900_GeV/Beta_star_11_m/Reduced_ntuples/7301/
2.3 InstallDirectoryOfCode /afs/cern.ch/work/f/fnemes/main_workspace_github_ssh_4/Projects/TOTEM_Projects/Physics_projects/Physics_analysis/Proton_proton_scattering/Elastic_scattering
2.4 Log_file_name AnalyzeDsigmaOverDt.log
2.5 MADX_label_of_left_far_RP_detector XRPV.B6L5.B2
2.6 MADX_label_of_left_near_RP_detector

XRPV.D6L5.B2

SaveRuns

1.11

7 MADX_label_of_right_far_RP_detector

XRPV.B6R5.B1

2.8 MADX_label_of_right_near_RP_detector

XRPV.D6R5.B1

2.9 MAD_X_twiss_beam_1

Projects/2023/E_CM_900_GeV_beta_star_11_m/General_settings/Optics/LHC_nominal/Beam_1/opticsproject.tfs

2.10 MAD_X_twiss_beam_2

 $Projects/2023/E_CM_900_GeV_beta_star_11_m/General_settings/Optics/LHC_nominal/Beam_2/opticsproject.tfs$

2.11 Output_directory

/afs/cern.ch/work/f/fnemes/tmp/pp/E_CM_900_GeV_beta_star_11_m/Analysis_output_files/7301/Diagonals/DIAGONAL_LEFT_BOTTOM_RIGHT_TOP/All_root_files_to_define_cu

2.12 VersionOfAnalysisCode

0

2.13 analysed_diagonal

DIAGONAL_LEFT_BOTTOM_RIGHT_TOP

2.14 binning_file_name

/afs/cern.ch/work/f/fnemes/main_workspace_github_ssh_4/Projects/TOTEM_Projects/Physics_projects/Physics_analysis/Proton_proton_scattering/Elastic_scattering/Projects/2025

2.15 geometrical_acceptance_cut_block

 $theta_x_star_rad_theta_y_star_rad_cut_block$

2.16 label_of_vertical_beam_divergence_plot

P0037_PlotsCollection_theta_y_star_left_rad_theta_y_star_right_rad_define_cut

2.17	project_subtask
dsigma/dt	.a/dt
2 8	project task
analyze	٥
orioni,	
2.19	required_trigger_bit_name
$\mathrm{RP}220\mathrm{V}$	$\Lambda^- 0$
2.20	vertical_angular_left_acceptance_cut_block
theta.	theta-y-star-left_rad_theta_y-star-right_rad_left_cut_block
6	
2.21	vertical_angular_right_acceptance_cut_block
theta_	$theta_y_star_left_rad_theta_y_star_right_rad_right_cut_block$
9 99	vertical hasm divergence out block
theta_	7
က	Parameter vectors
4	Settings
4.1	Fill_number
7301	
4.2	Input_directory
root:/	${\rm root://eostotem.cern.ch//eos/cms/store/group/phys_diffraction/fnemes/E_CM_900_GeV/Beta_star_11_m/Reduced_ntuples/7301/}$
4.3	InstallDirectoryOfCode
/afs/c	$/afs/cern.ch/work/f/fnemes/main_workspace_github_ssh_4/Projects/TOTEM_Projects/Physics_projects/Physics_analysis/Proton_proton_scattering/Elastic_scattering$

4.4 Log_file_name

AnalyzeDsigmaOverDt.log

4.5 MADX_label_of_left_far_RP_detector

XRPV.B6L5.B2

4.6 MADX_label_of_left_near_RP_detector

XRPV.D6L5.B2

4.7 MADX_label_of_right_far_RP_detector

XRPV.B6R5.B1

4.8 MADX_label_of_right_near_RP_detector

XRPV.D6R5.B1

4.9 MAD_X_twiss_beam_1

Projects/2023/E_CM_900_GeV_beta_star_11_m/General_settings/Optics/LHC_nominal/Beam_1/opticsproject.tfs

4.10 MAD_X_twiss_beam_2

Projects/2023/E_CM_900_GeV_beta_star_11_m/General_settings/Optics/LHC_nominal/Beam_2/opticsproject.tfs

4.11 Output_directory

/afs/cern.ch/work/f/fnemes/tmp/pp/E_CM_900_GeV_beta_star_11_m/Analysis_output_files/7301/Diagonals/DIAGONAL_LEFT_BOTTOM_RIGHT_TOP/All_root_files_to_define_cu

4.12 VersionOfAnalysisCode

4.13 analysed_diagonal

DIAGONAL_LEFT_BOTTOM_RIGHT_TOP

4.14 binning_file_name

/afs/cern.ch/work/f/fnemes/main_workspace_github_ssh_4/Projects/TOTEM_Projects/Physics_projects/Physics_analysis/Proton_proton_scattering/Elastic_scattering/Projects/2028

geometrical_acceptance_cut_block 4.15

theta_x_star_rad_theta_y_star_rad_cut_block

4.16 label_of_vertical_beam_divergence_plot

P0037_PlotsCollection_theta_y_star_left_rad_theta_y_star_right_rad_define_cut

4.17 project_subtask

dsigma/dt

4.18 project_task

analyze

4.19 required_trigger_bit_name

RP220_V

4.20 vertical_angular_left_acceptance_cut_block

theta_y_star_left_rad_theta_y_star_right_rad_left_cut_block

4.21 vertical_angular_right_acceptance_cut_block

theta_y_star_left_rad_theta_y_star_right_rad_right_cut_block

4.22 vertical_beam_divergence_cut_block

theta_y_star_left_rad_theta_y_star_right_rad_cut_block

Beam energy [GeV] = 450

Beam energy [GeV] = 450

Input file: root://eostotem.cern.ch//eos/cms/store/group/phys_diffraction/fnemes/E_CM_900_GeV/Beta_star_11_m/Reduced_ntuples/7301/output_LBRT.root

MADX_label_of_left_near_RP_detector: XRPV.D6L5.B2

MADX_label_of_left_far_RP_detector: XRPV.B6L5.B2

MADX_label_of_right_near_RP_detector: XRPV.D6R5.B1

MADX_label_of_right_far_RP_detector: XRPV.B6R5.B1

Cut: theta x star rad theta y star rad cut parameter x1 -6e-05 parameter y1 -0.0004 parameter x2 6e-05 parameter y2 -0.0004 parameter range1 x -6e-05 parameter range1 y Cut: theta y star left rad theta y star right rad left cut parameter x1 -0.0004 parameter y1 -4e-05 parameter x2 -0.0004 parameter y2 -9e-05 parameter range1 x -6e-05 parameter rangel y 6.6565e-05 parameter range2 x 6e-05 parameter range2 y 6.6565e-05 parameter sigma 0.0002 parameter number of sigmas 1 End cut theta y star left rad theta y star right 6.6565e-05 parameter range2 x 6e-05 parameter range2 y 6.6565e-05 parameter sigma 0.0002 parameter number of sigmas 1 End cut theta x star rad theta y star rad cut

Cut: theta y star left rad theta y star right rad right cut parameter x1 4e-05 parameter y1 0.0004 parameter x2 9e-05 parameter rangel y 6.6565e-05 parameter range2 x 6e-05 parameter range2 y 6.6565e-05 parameter sigma 0.0002 parameter number of sigmas 1 End cut theta y star left rad theta y star right Cut: theta x star rad theta y star rad cut parameter x1 -6e-05 parameter y1 -0.0004 parameter x2 6e-05 parameter y2 -0.0004 parameter rangel x -6e-05 parameter rangel y Cut: theta y star left rad theta y star right rad cut define parameter x1 -0.0006 parameter y1 0.0006 parameter x2 0.0006 parameter y2 -0.0006 parameter range1 x -0.0008 parameter rangel y 0.0008 parameter range2 x 0.0008 parameter range2 y -0.0008 parameter sigma 8.39152e-06 parameter number of sigmas 4 End cut theta y star left rad theta 6.6565e-05 parameter range2 x 6e-05 parameter range2 y 6.6565e-05 parameter sigma 0.0002 parameter number of sigmas 1 End cut theta x star rad theta y star rad cut y star right rad cut define

Cut: y mm near dy mm left cut define parameter x1 -4.34046 parameter y1 0.250457 parameter x2 -13.4906 parameter y2 0.161253 parameter range1 x -9.33107 parameter range1 y -0.763575 parameter range2 x -22 parameter range2 y -2.6414 parameter sigma 0.1 parameter number of sigmas 4 End cut y mm near dy mm left cut define

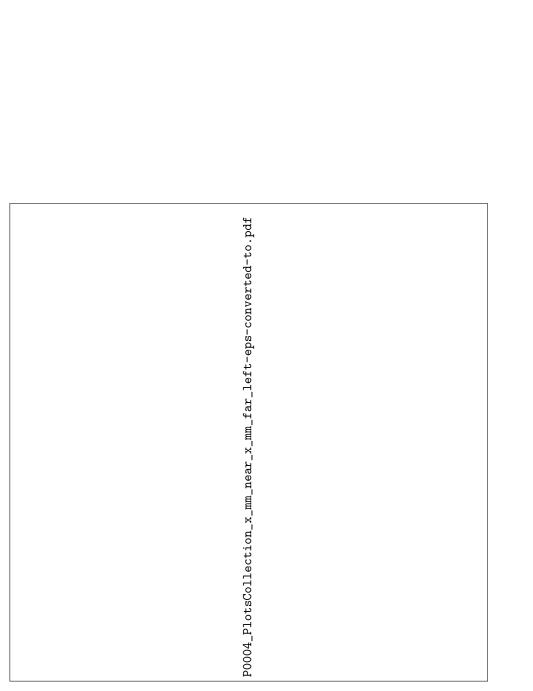
rangel x 0.0006 parameter rangel y -1.8e-05 parameter range2 x -0.0006 parameter range2 y 1.8e-05 parameter sigma 5.81138e-05 parameter number of sigmas 4 End cut theta x Cut: y mm near dy mm right cut define parameter x1 3.28467 parameter y1 0.0583257 parameter x2 11.3008 parameter y2 -0.0994968 parameter range1 x 2 parameter range1 y Cut: x star left mm x star right mm cut define parameter x1 0.000272145 parameter y1 -0.000274497 parameter x2 -0.223978 parameter y2 -0.223979 parameter range1 x 0.2 parameter range1 y 0.2 parameter range2 x 0.03 parameter range2 y 0.03 parameter sigma 7.65185 parameter number of sigmas 4 End cut x star left mm x star right mm cut define Cut: theta x star left rad theta x star right rad cut define parameter x1 2.04076e-07 parameter y1 2.05671e-07 parameter x2 8.36704e-05 parameter y2 -8.33184e-05 parameter 0.763575 parameter range2 x 12 parameter range2 y 2.6414 parameter sigma 0.1 parameter number of sigmas 4 End cut y mm near dy mm right cut define star left rad theta x star right rad cut define

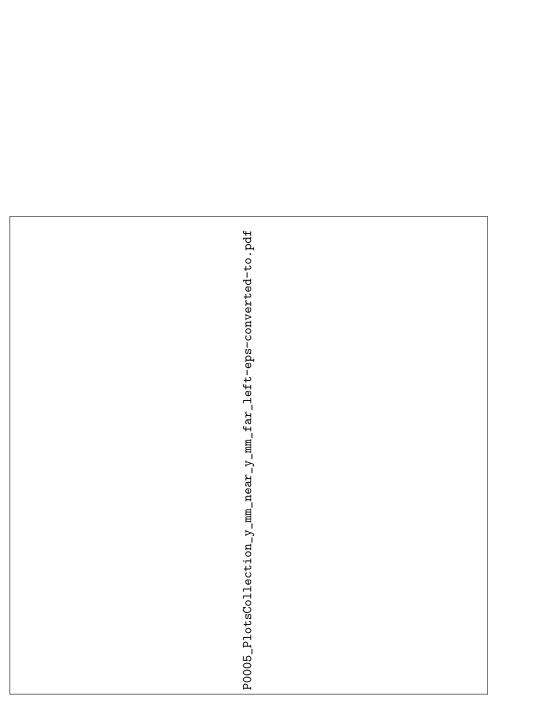
P0000_PlotsCollection_x_mm_y_mm_near_left-eps-converted-to.pdf	

P0001_PlotsCollection_x_mm_y_mm_far_left-eps-converted-to.pdf	

P0002_PlotsCollection_x_mm_y_mm_near_right-eps-converted-to.pdf	

P0003_PlotsCollection_x_mm_y_mm_far_right-eps-converted-to.pdf	

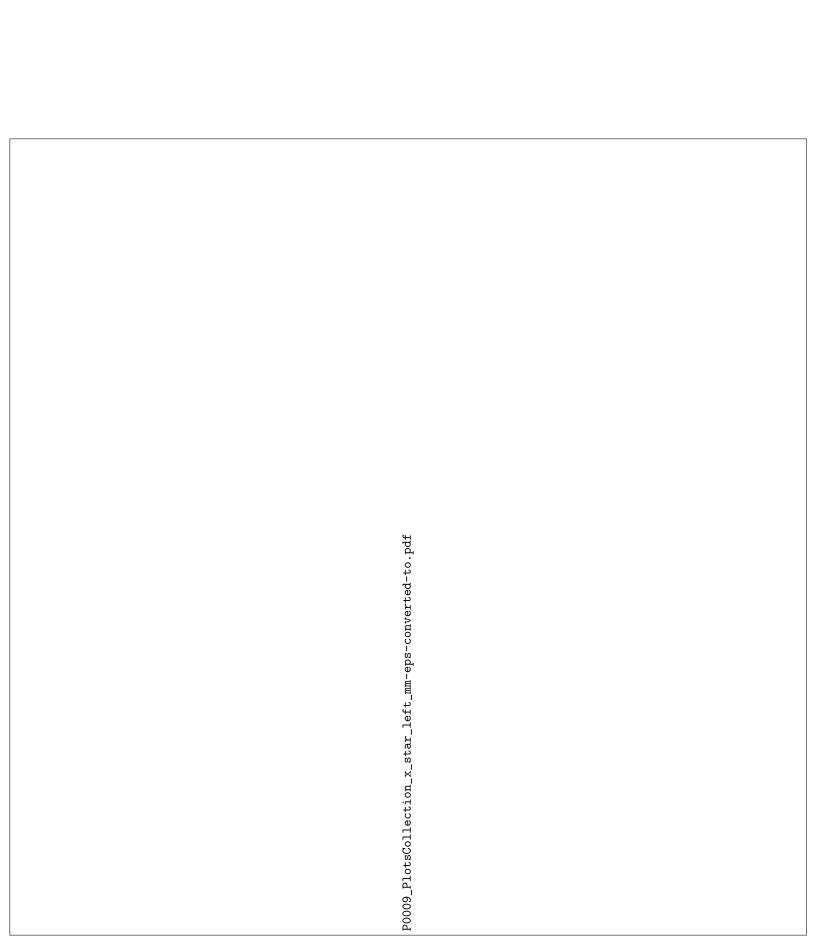


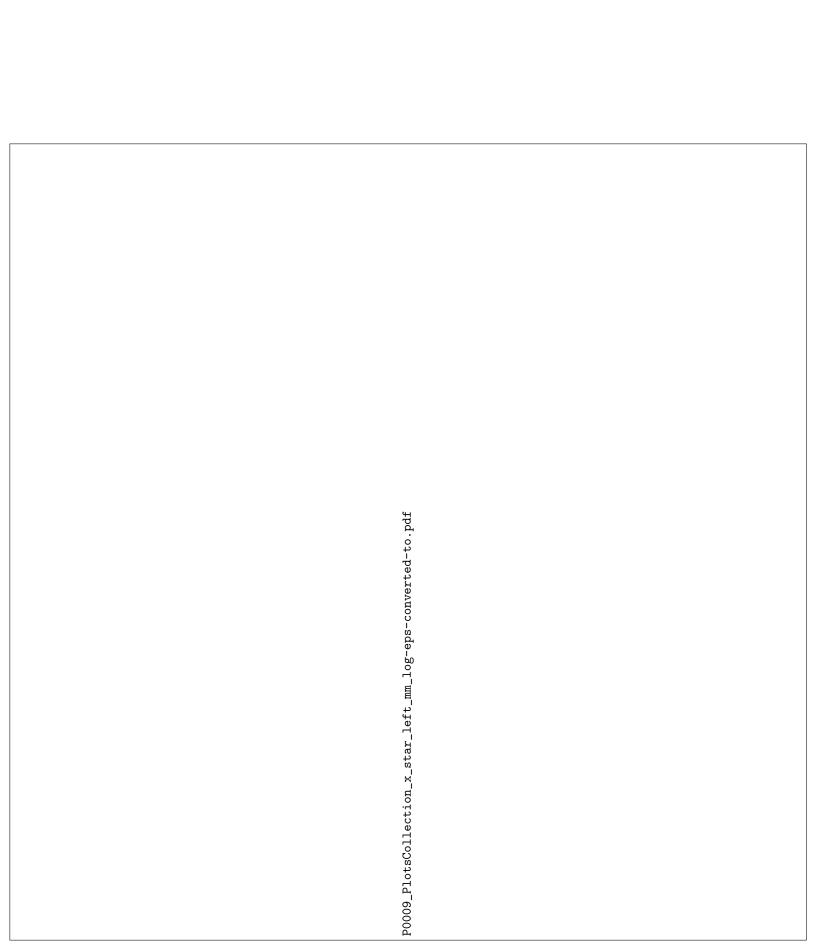


P0006_PlotsCollection_x_mm_near_x_mm_far_right-eps-converted-to.pdf

P0007_PlotsCollection_y_mm_near_y_mm_far_right-eps-converted-to.pdf	

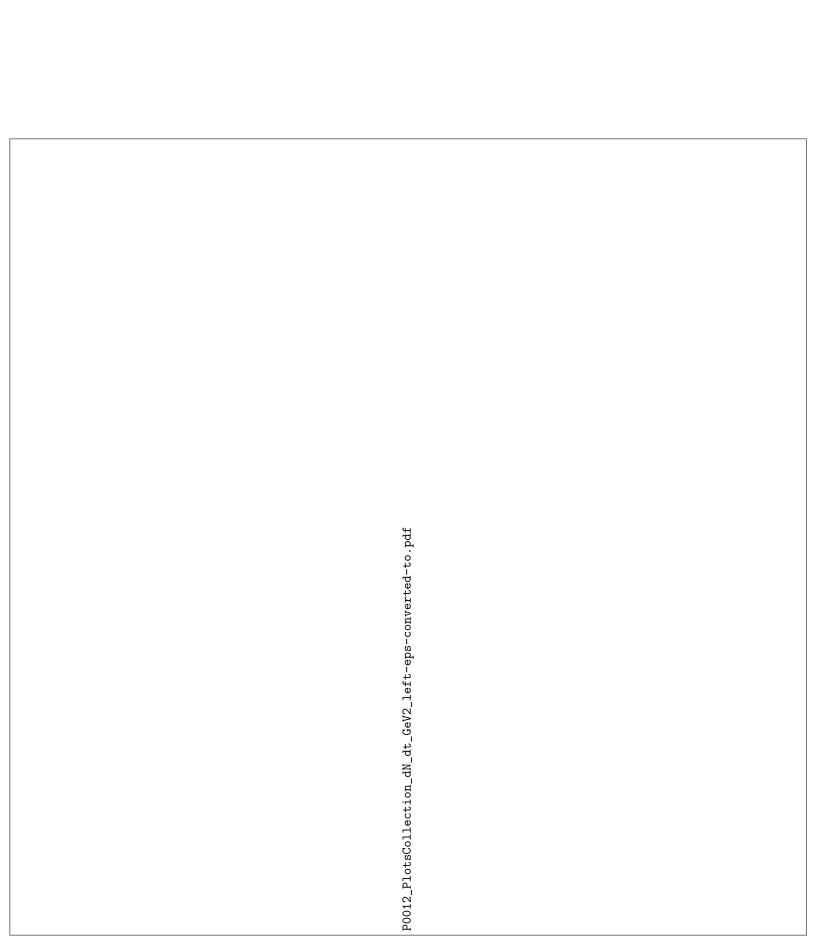
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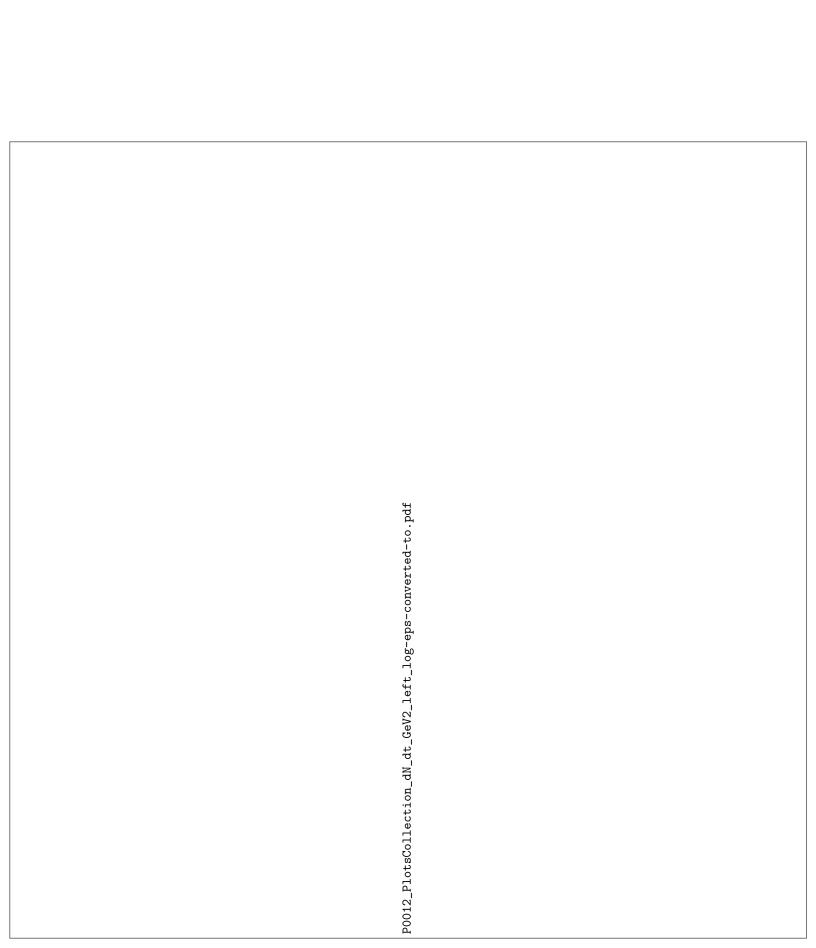


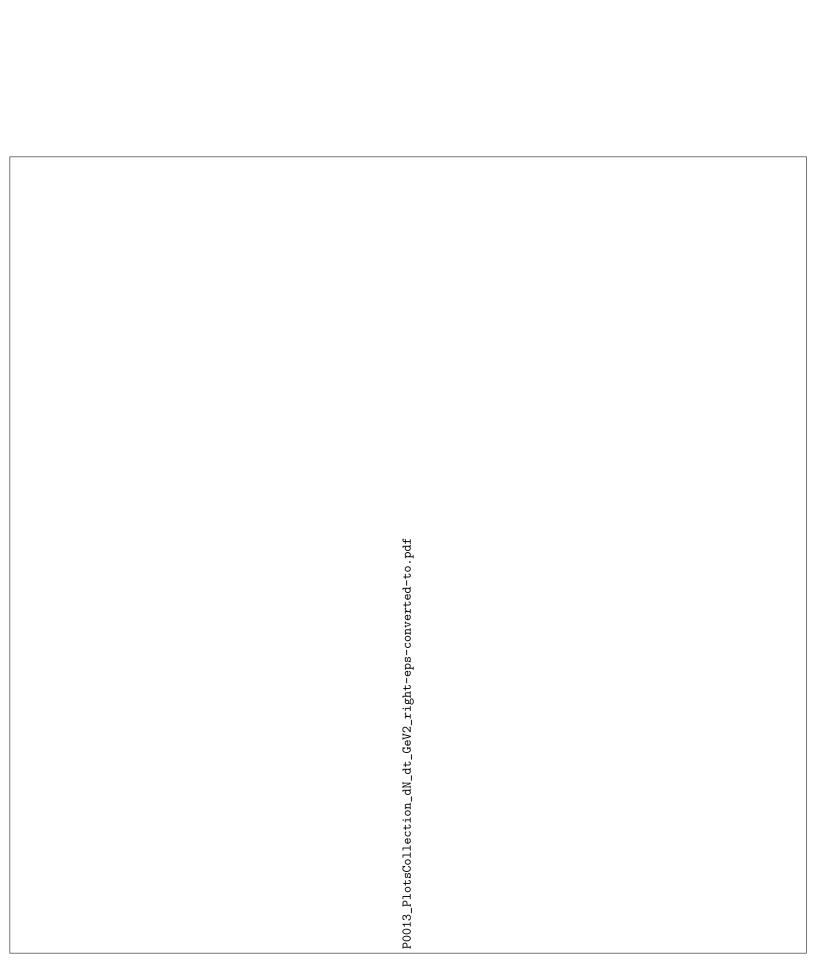


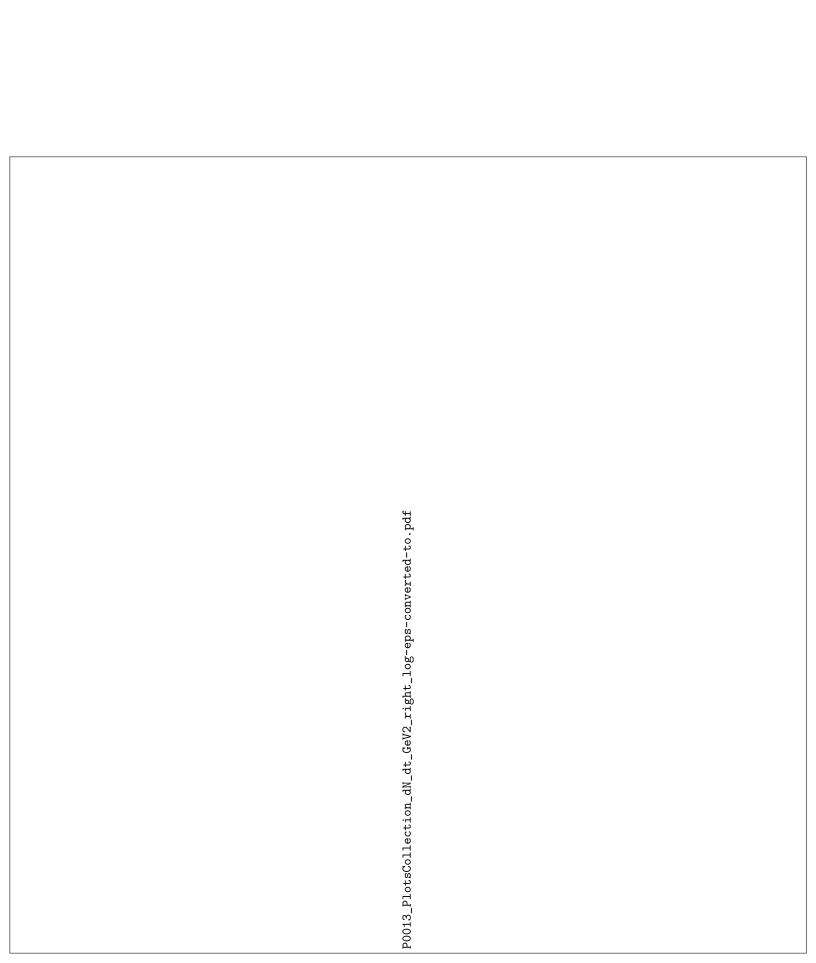
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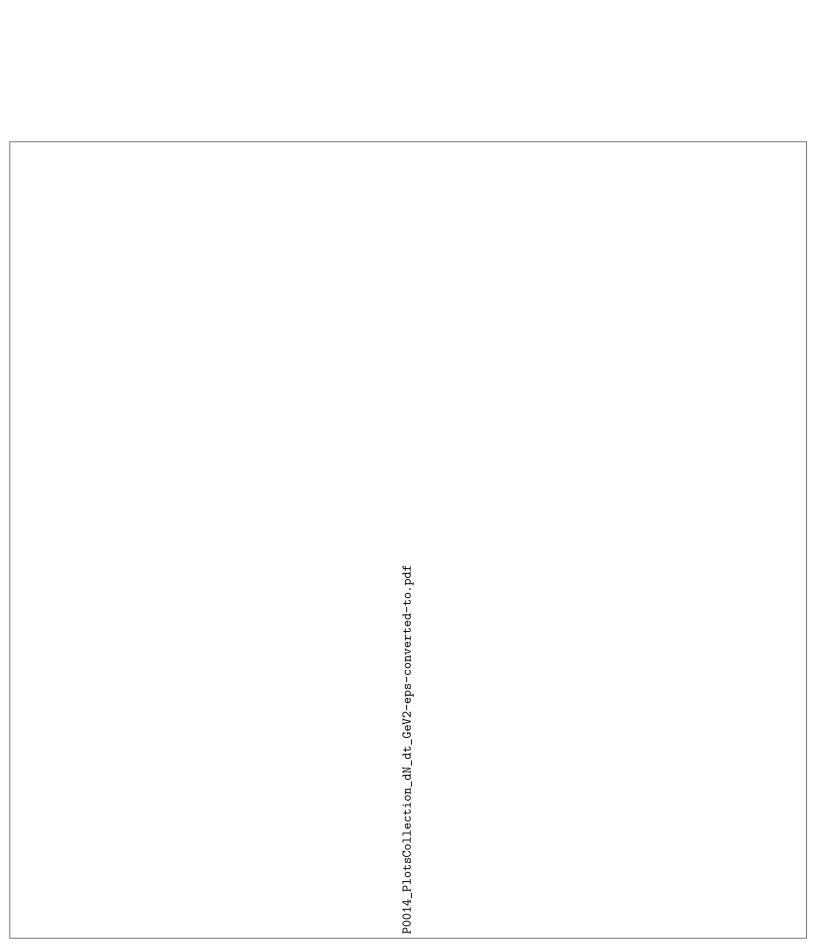
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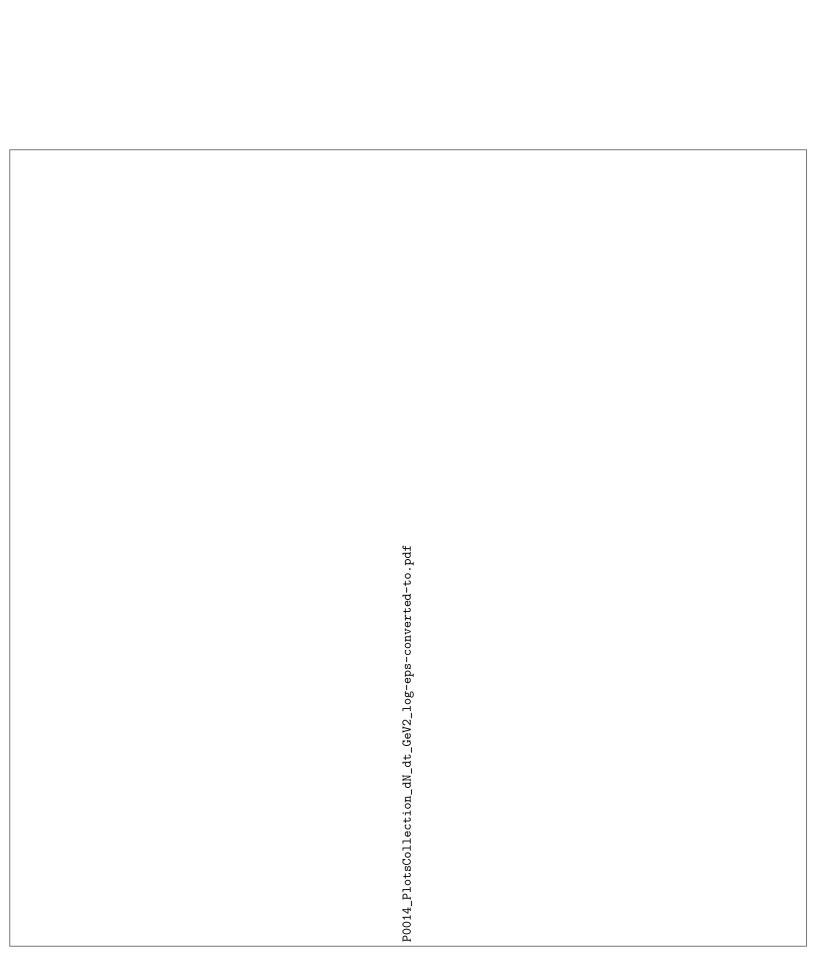




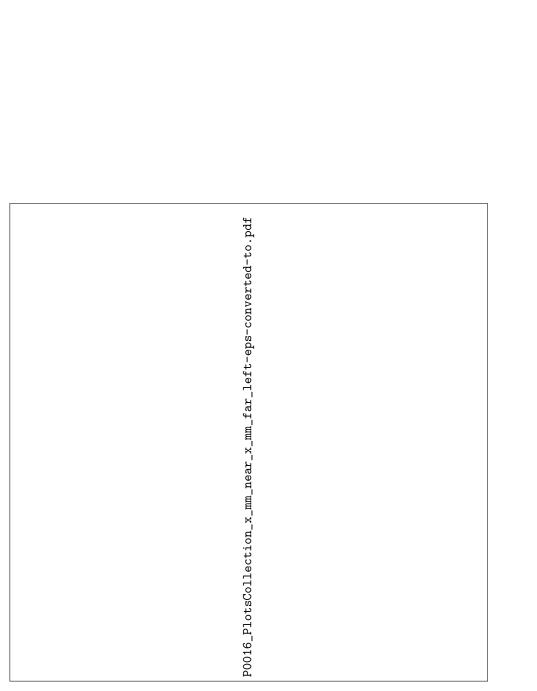




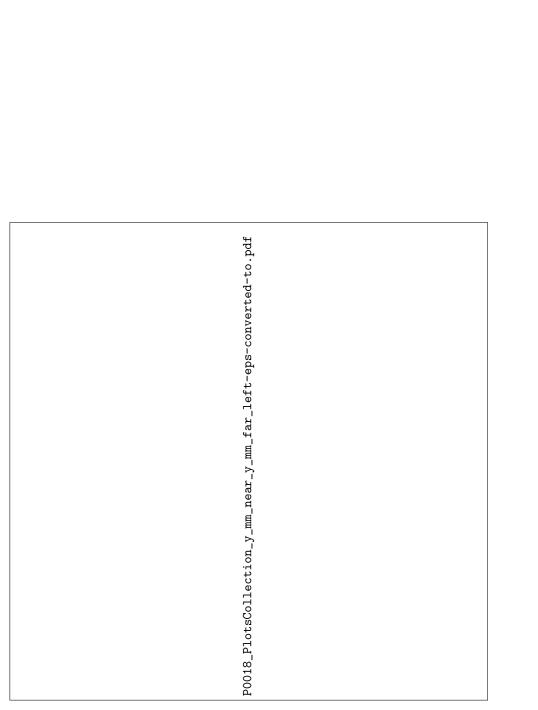




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P0015_PlotsCollection_theta_x_star_rad_theta_y_star_rad_eps-converted-to.pdf	
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P0017_PlotsCollection_x_mm_near_x_mm_far_right-eps-converted-to.pdf



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kaw_cut_2_di	ന്ത് <i>റിമി</i> ല് ഇവരി പ്രമുന്ന് പ്രമുന്നു പ്രമുന്നു പ്രമുവ്വന് പ്രമുവ്വന് പ്രമുവ്വന് വി വാധിക്കുന്നു പ്രമുന്നു വി വാധിക്കുന്നു വാധിക്കുന്നുന്നു വാധിക്കുന്നു. വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു. വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു. വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു. വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു. വാധിക്കുന്നു വാധിക്കാന്നു വാധിക്കുന്നു വാധിക്കുന്നുന്നു വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്കുന്നു വാധിക്ക്കുന്നു വാധിക്കാന്നു വാധിക്കാന്ന് വാധിക്കാന് വാധ	P0029_PlotsCollection_theta_x_star_right_rad_dra@0289tP2onsCaldecpionillaespsxcanaerledtLoapdLheta_x_star_right_rad_draw_cut_2_di
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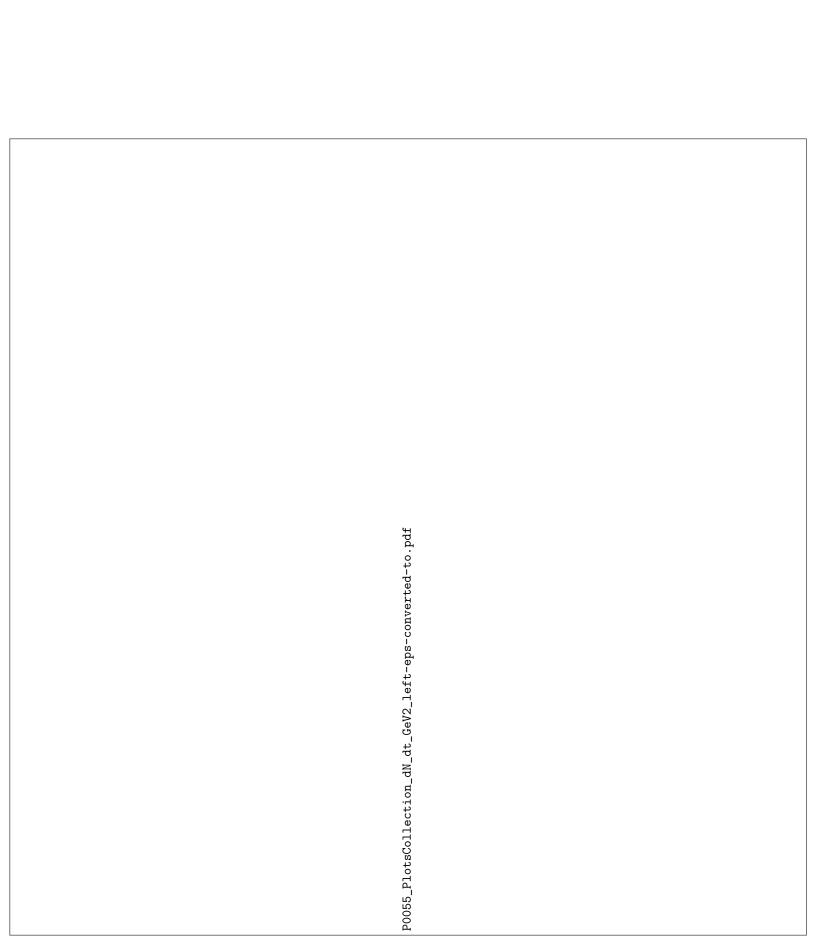
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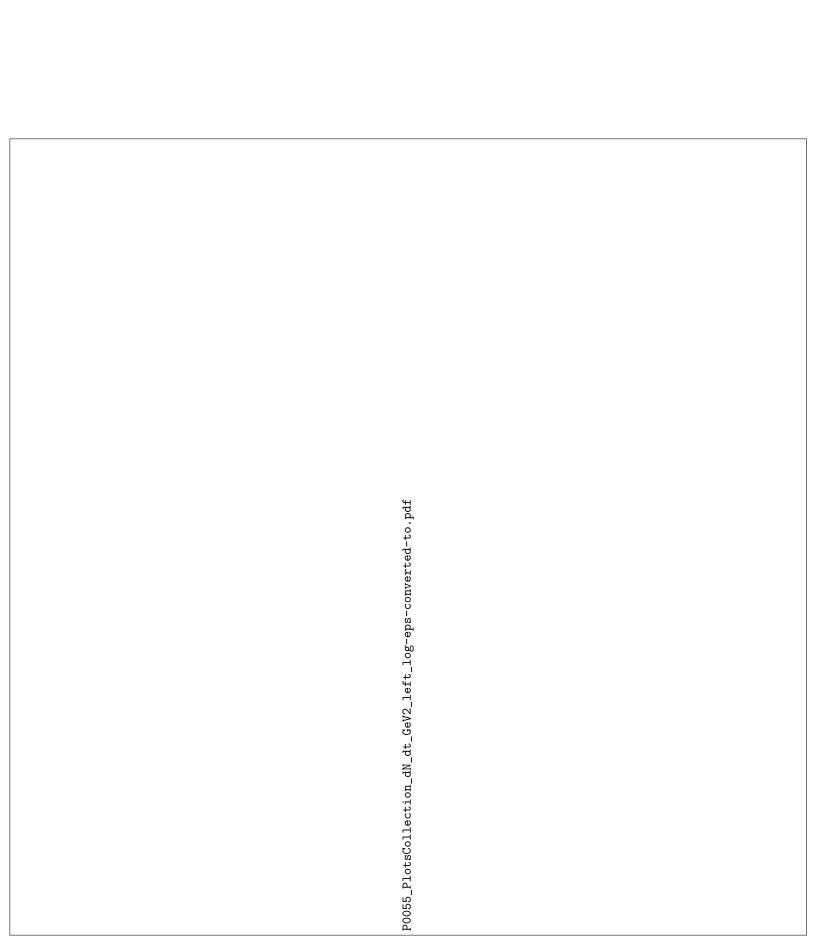
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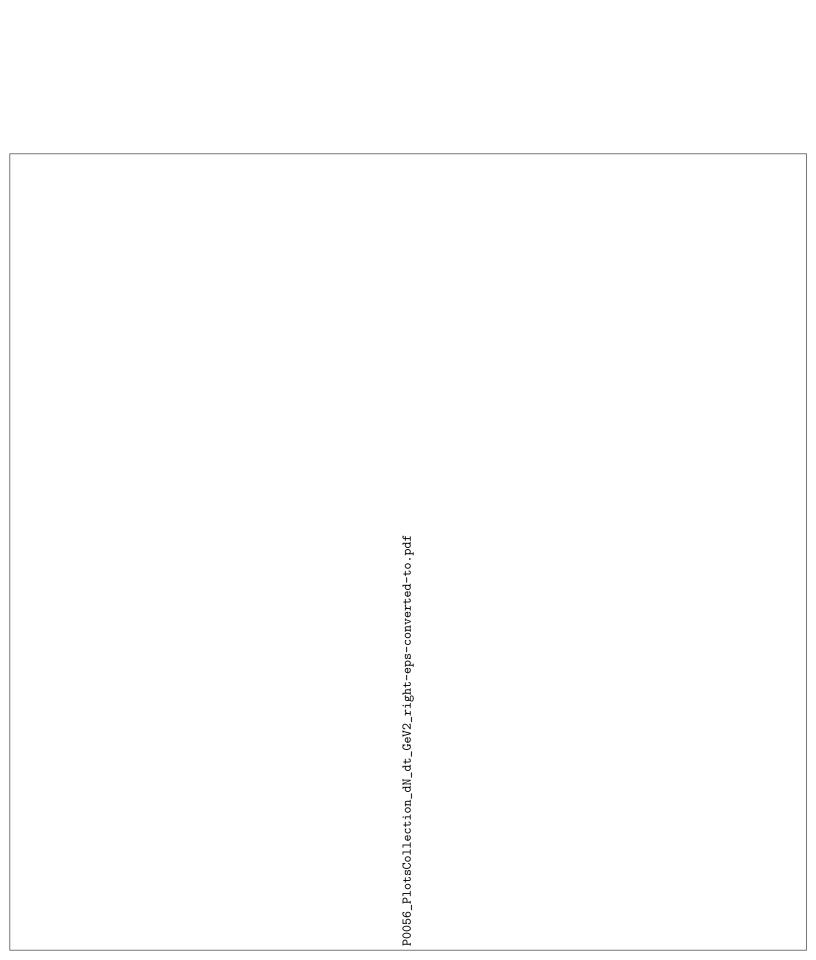
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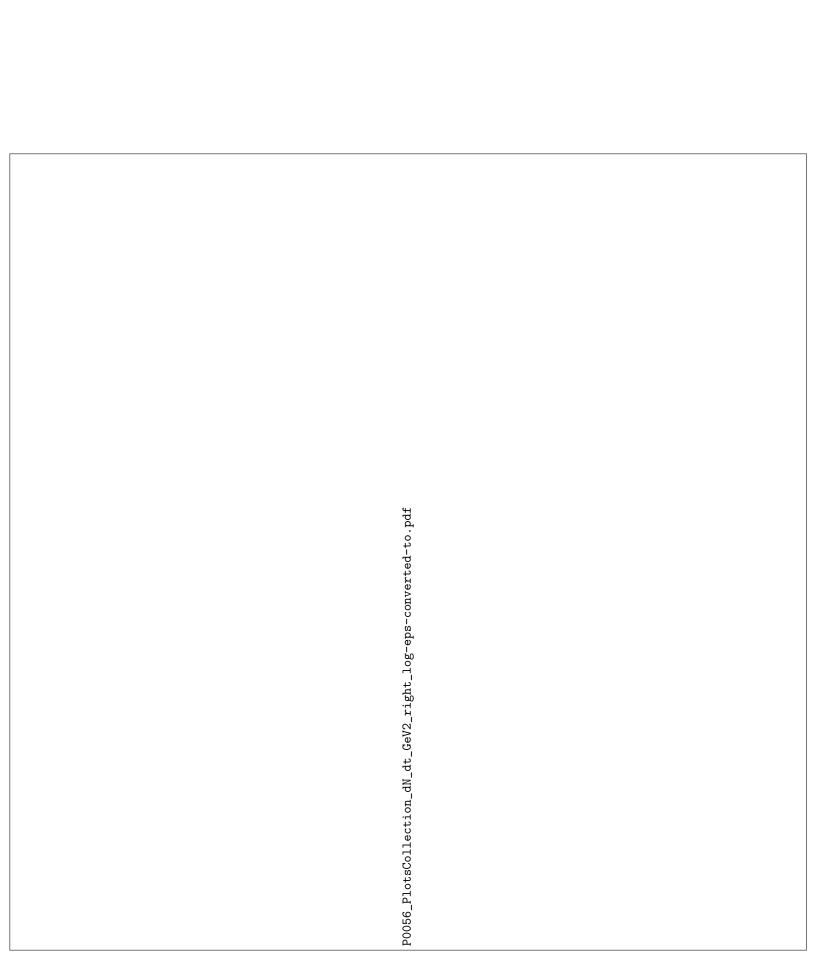
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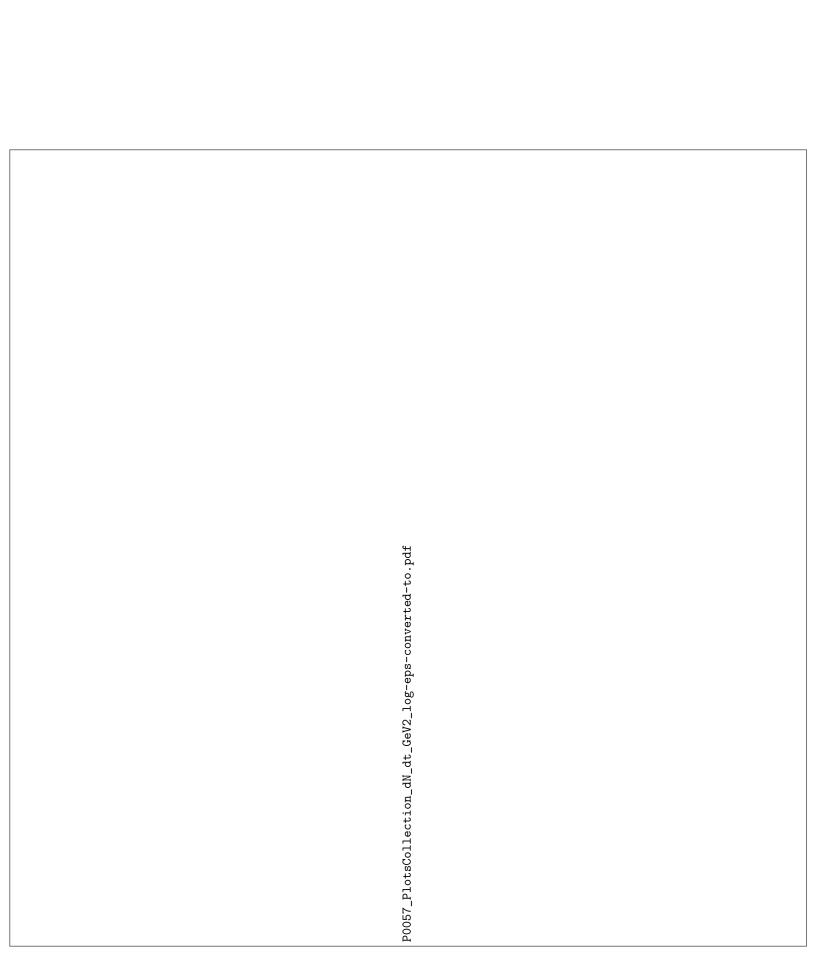
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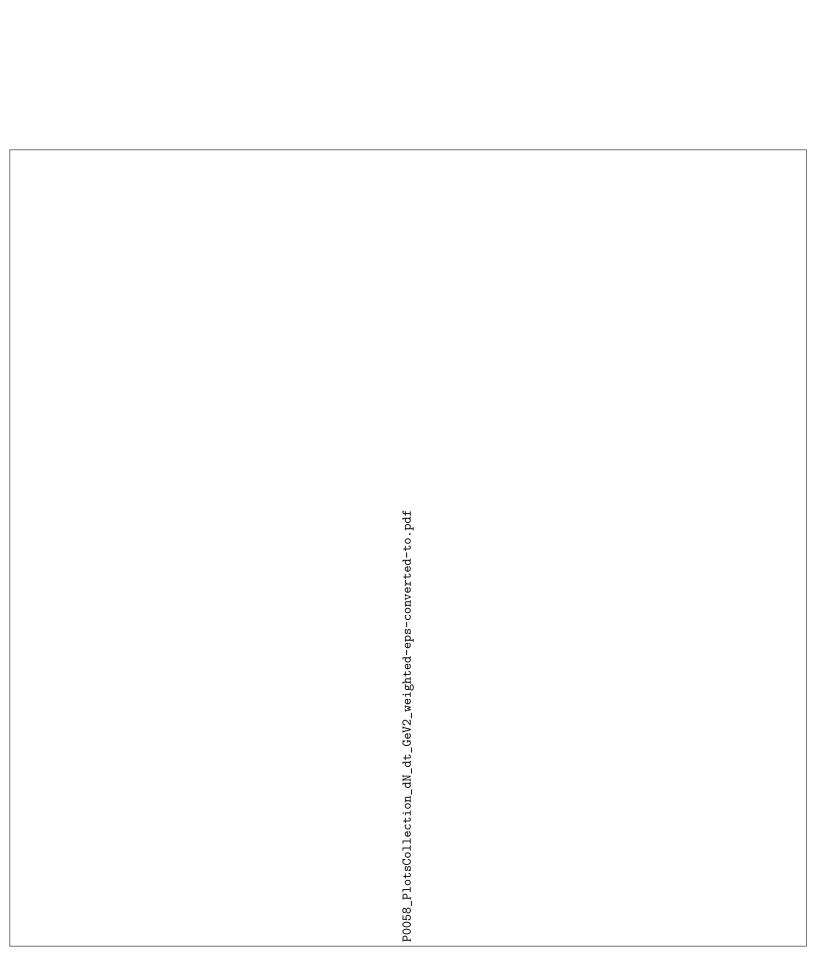


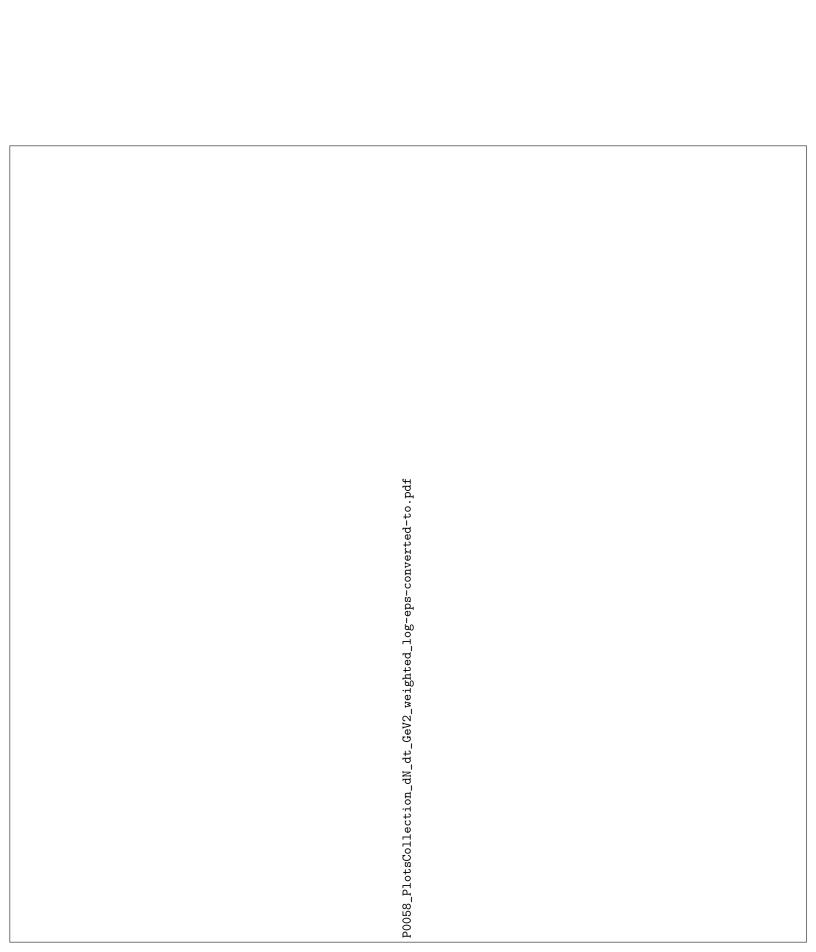


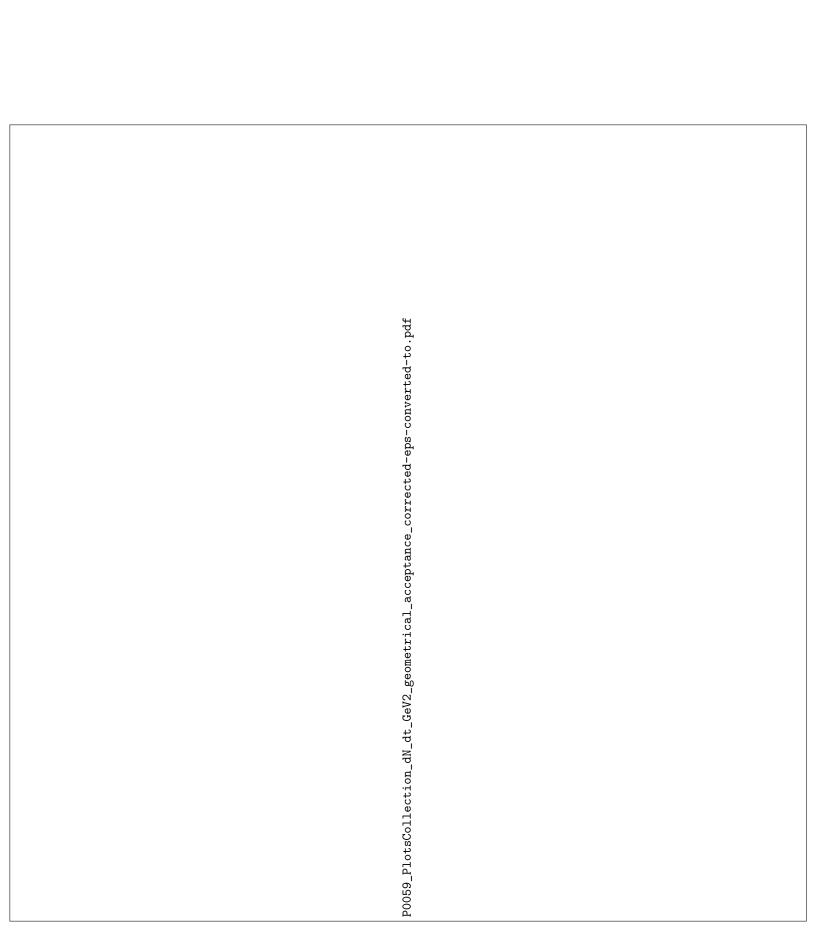


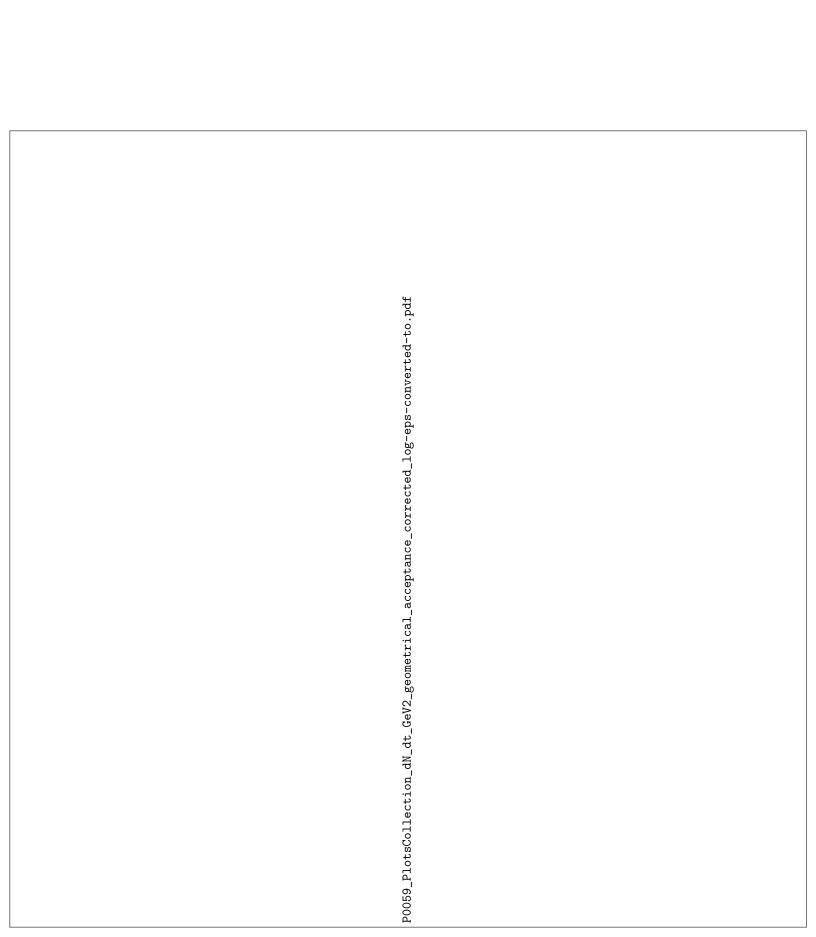


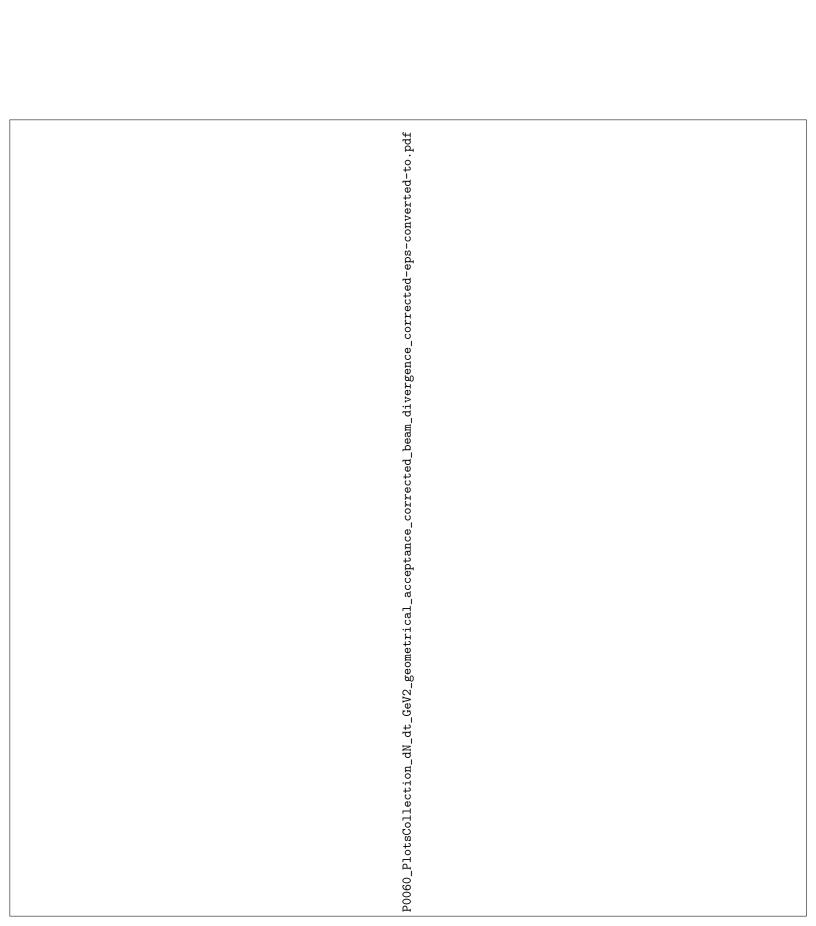


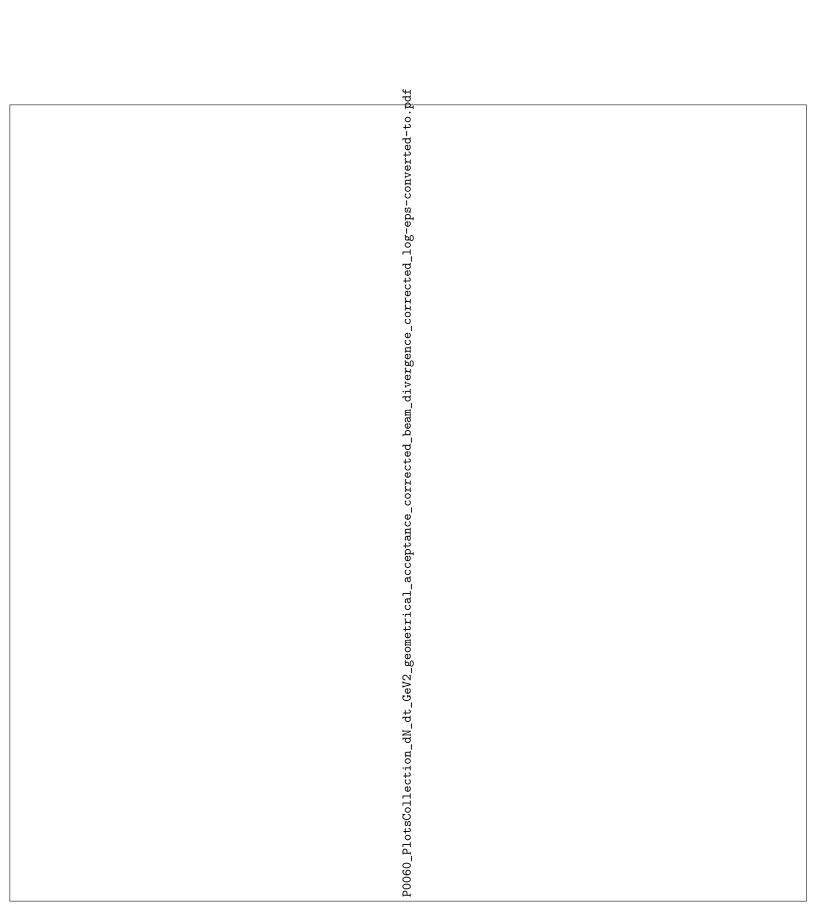


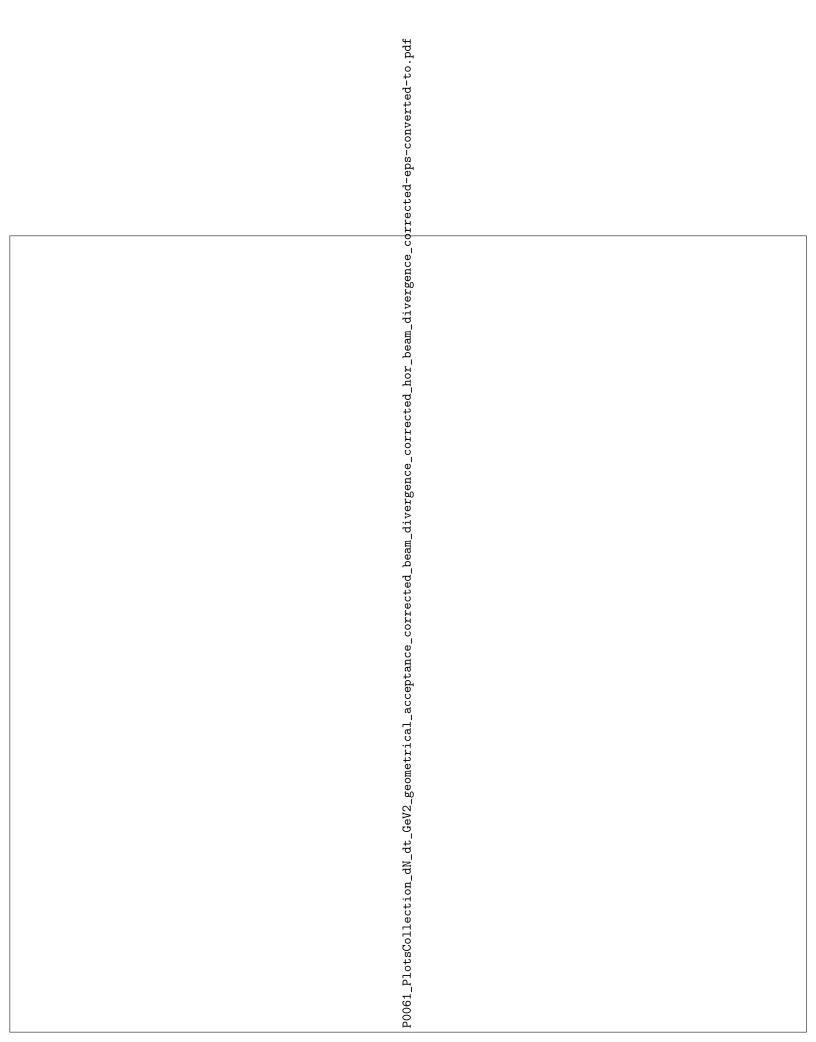


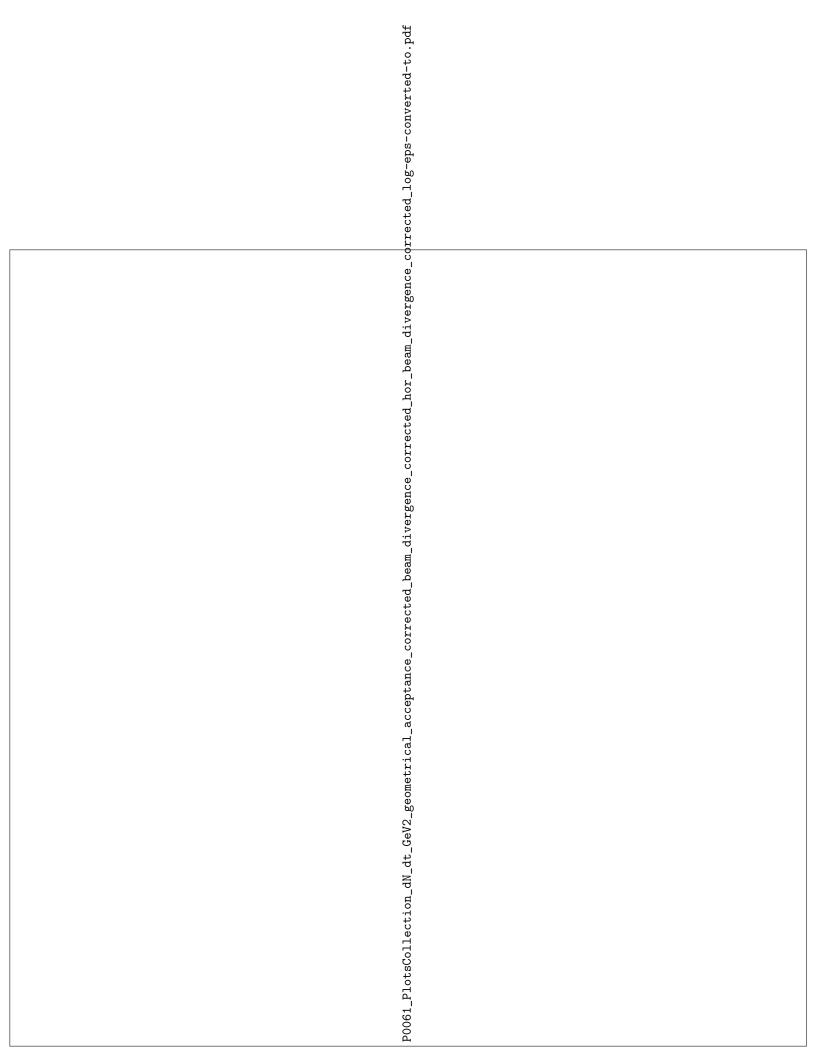


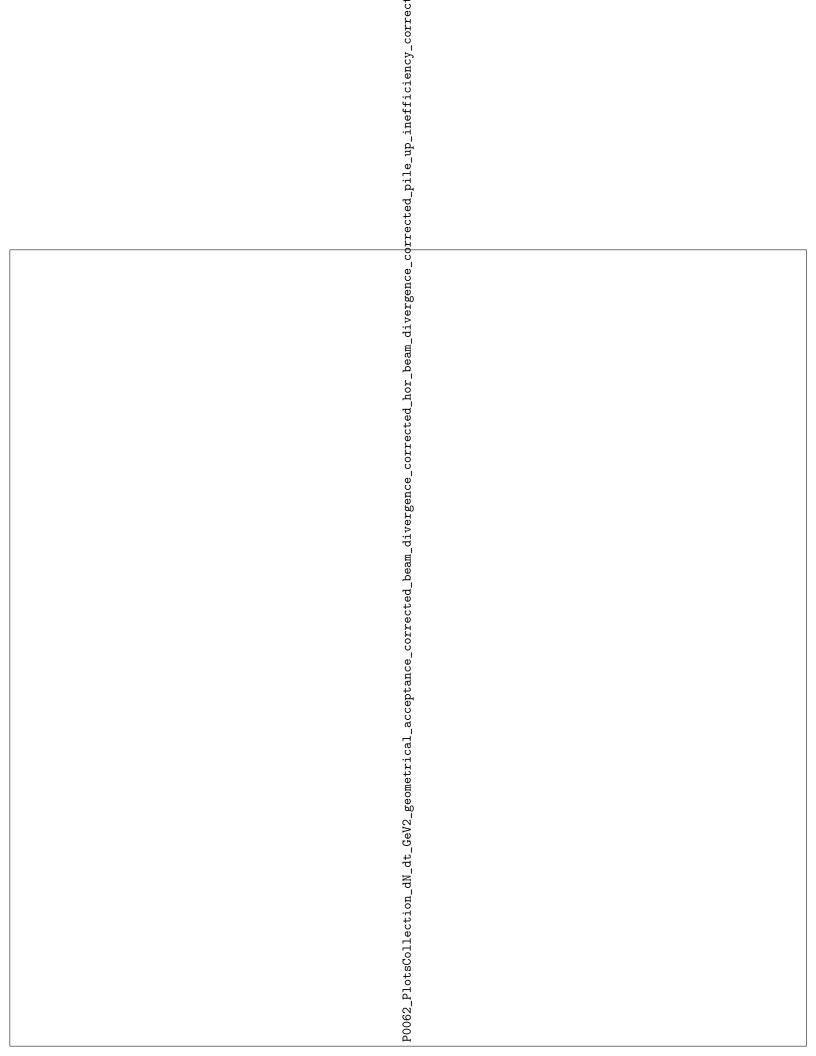


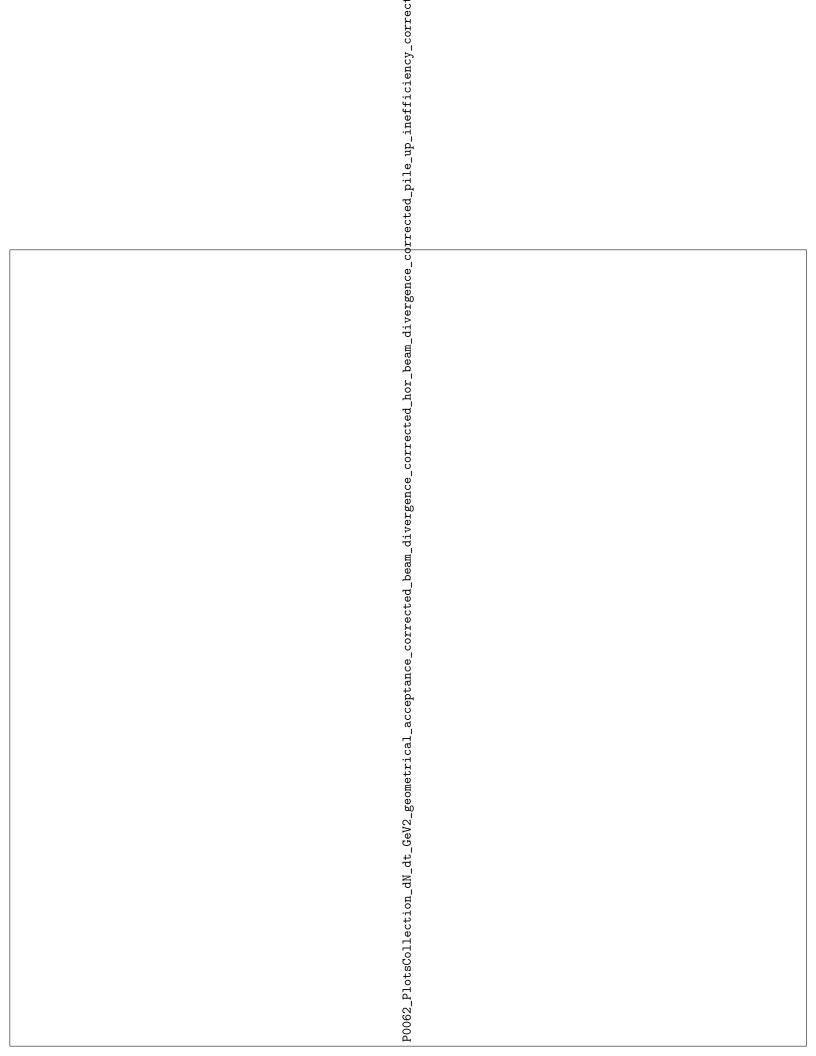


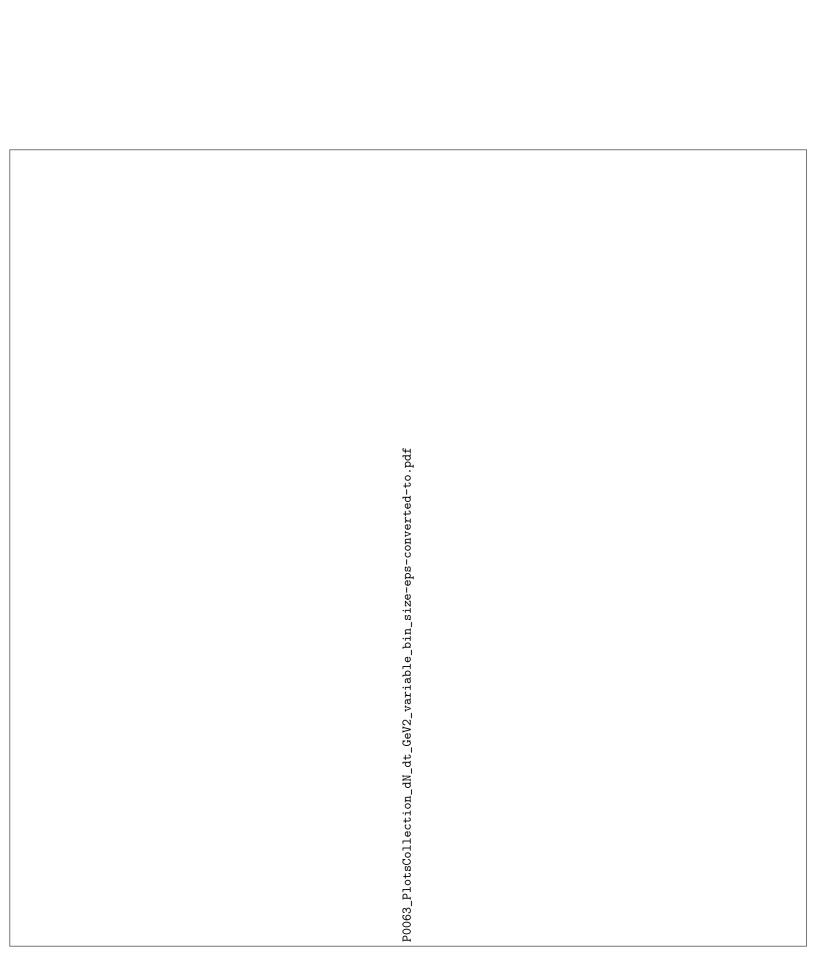


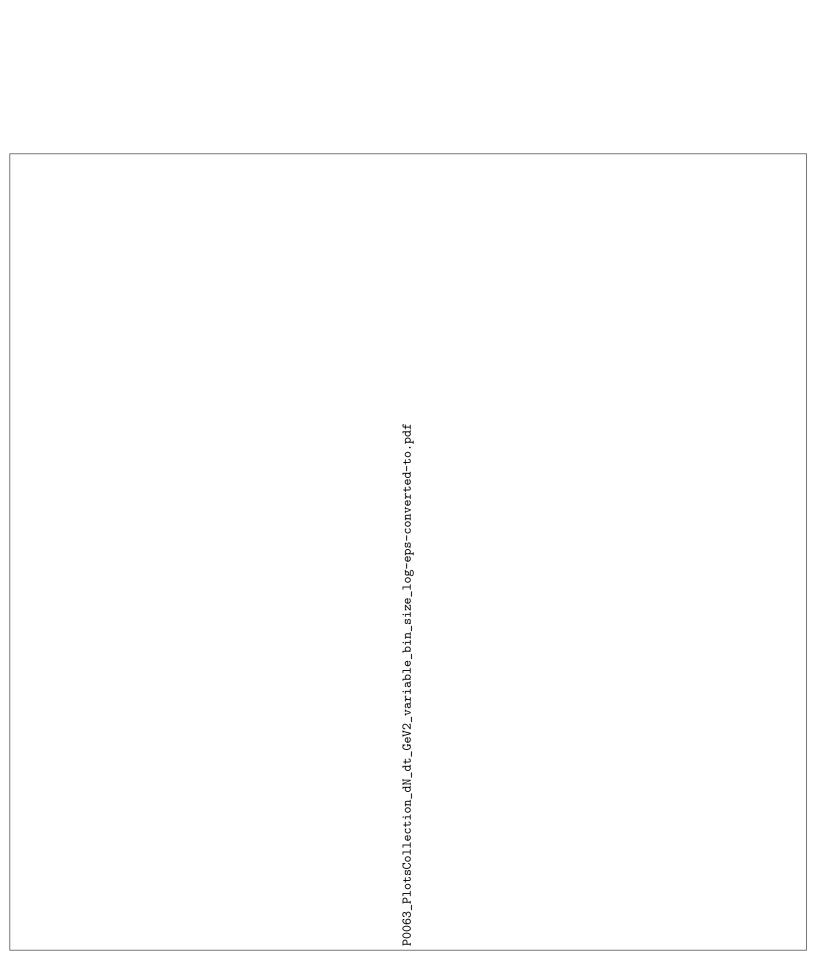


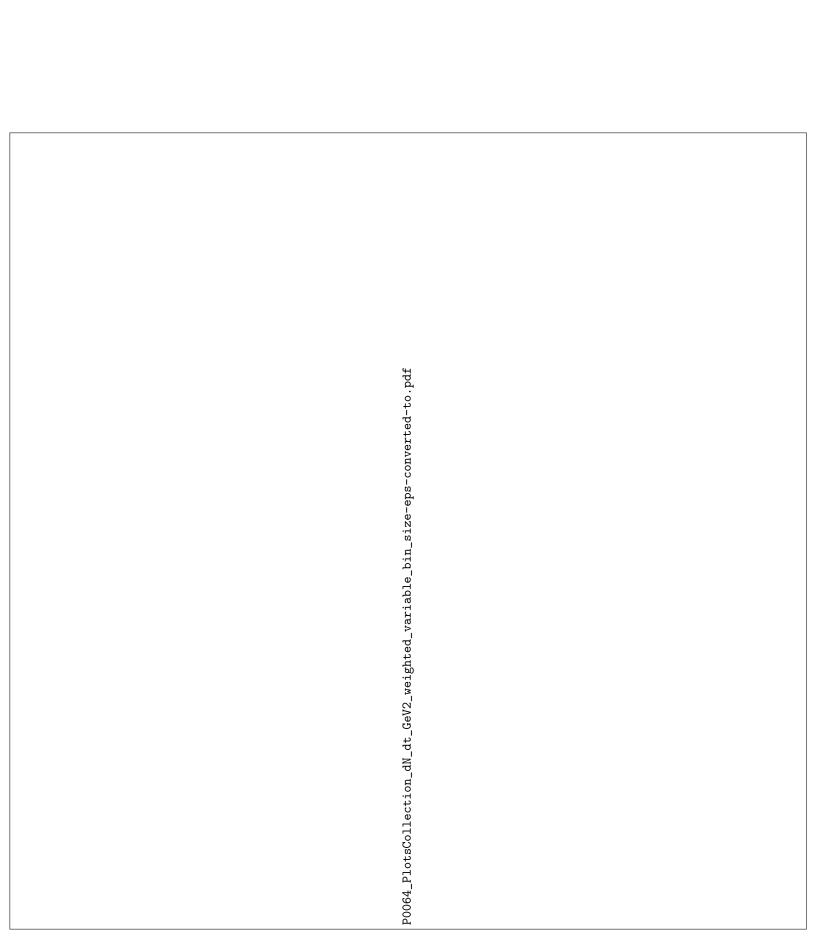


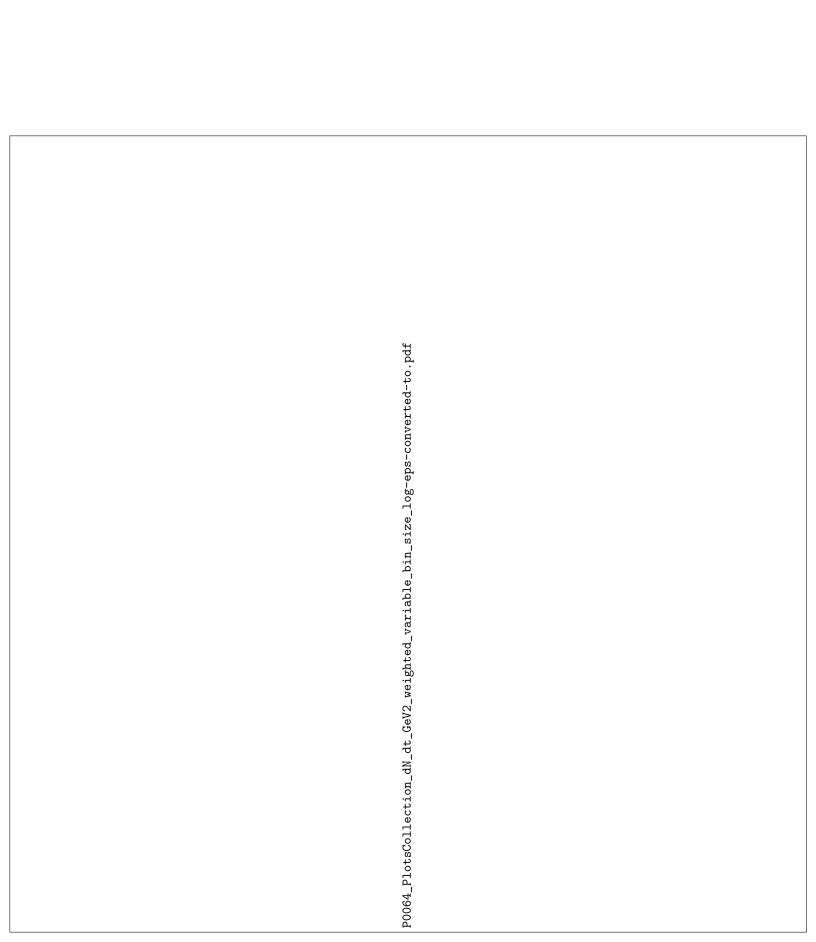


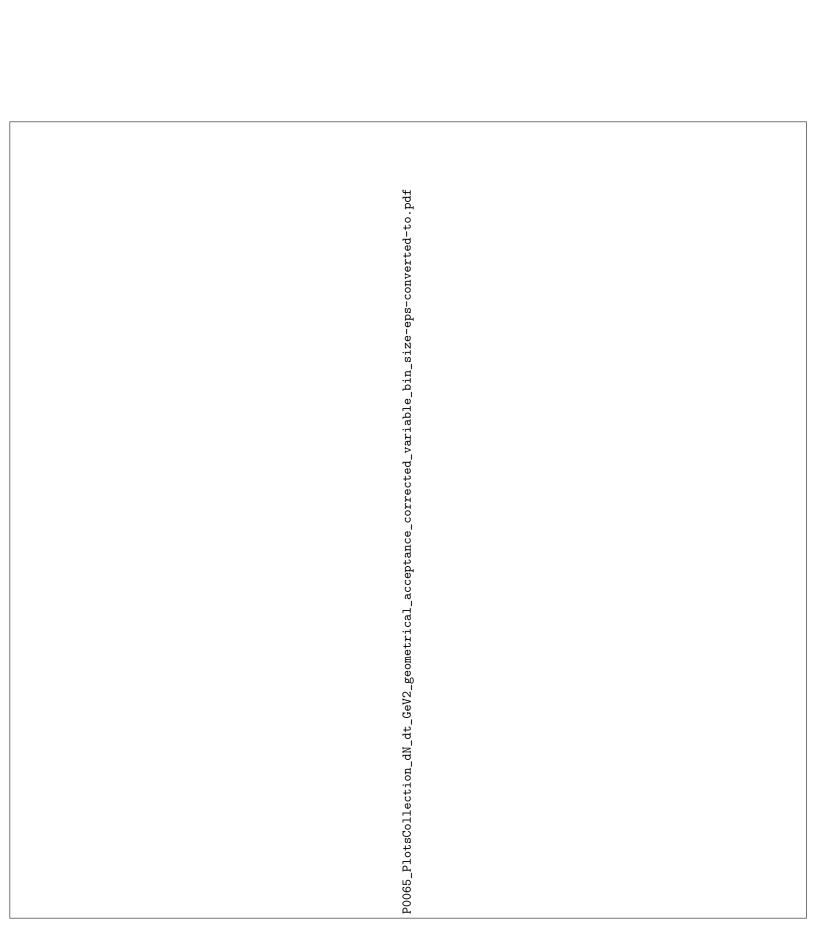


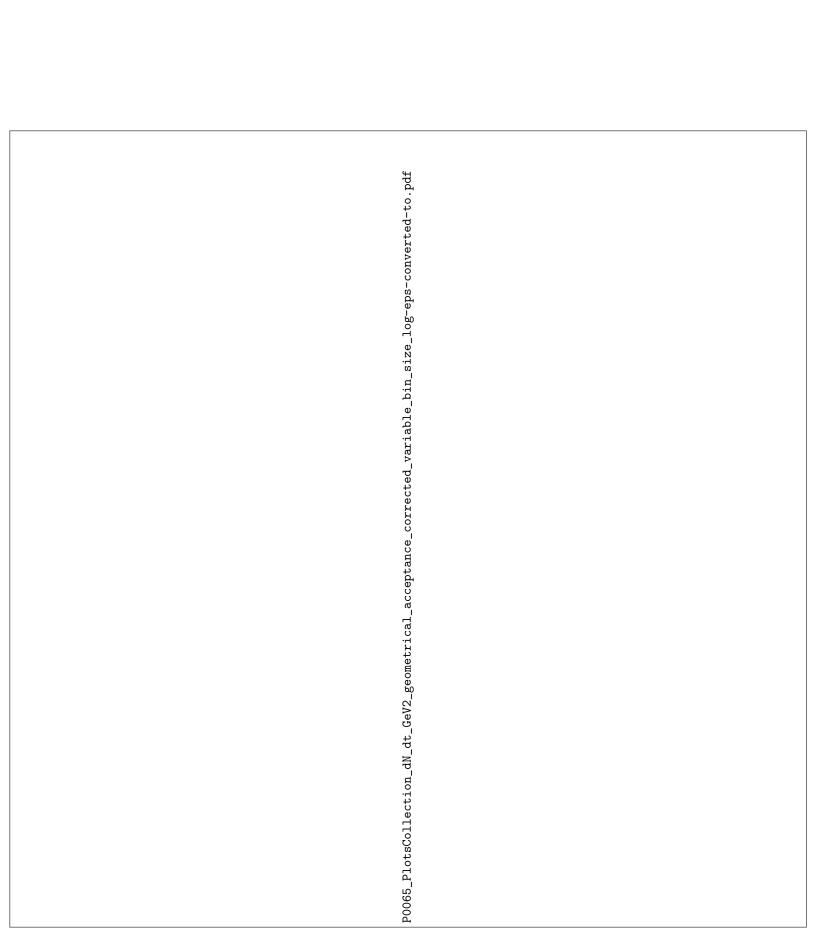


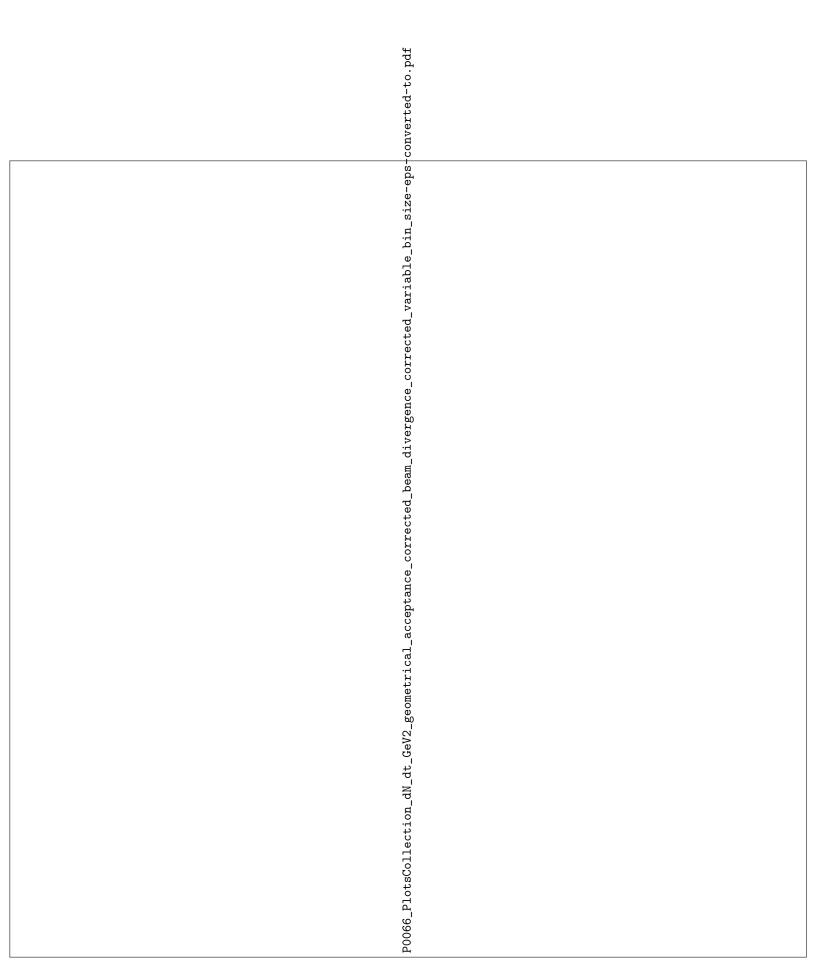


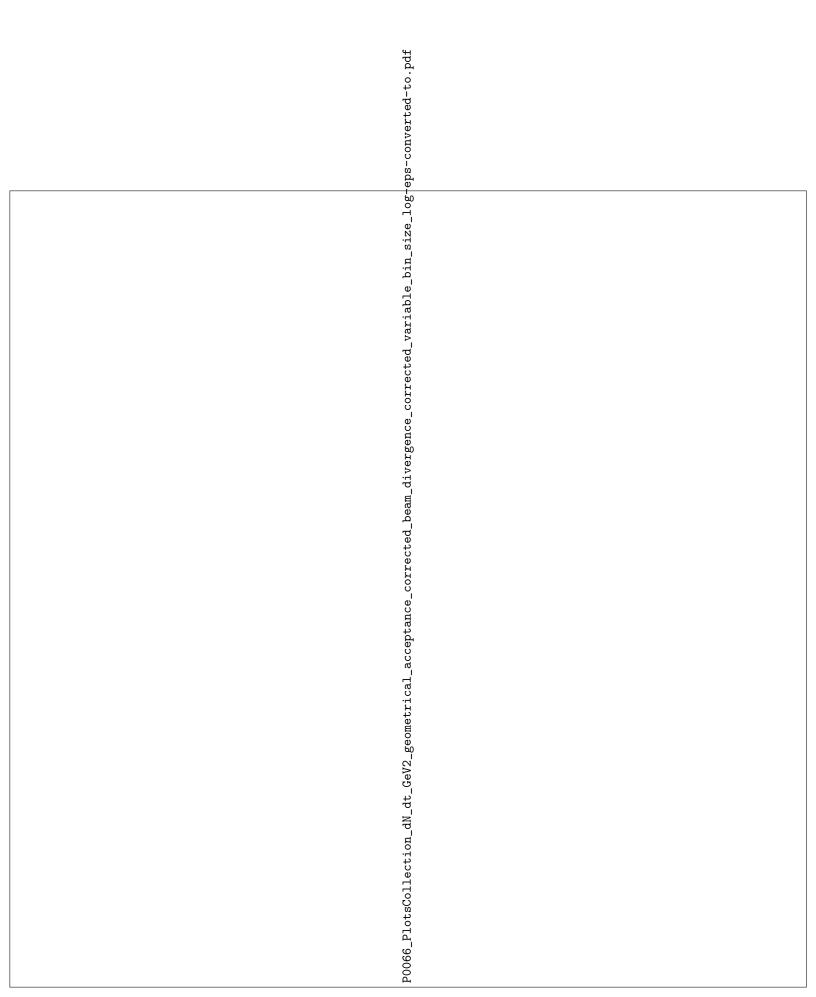


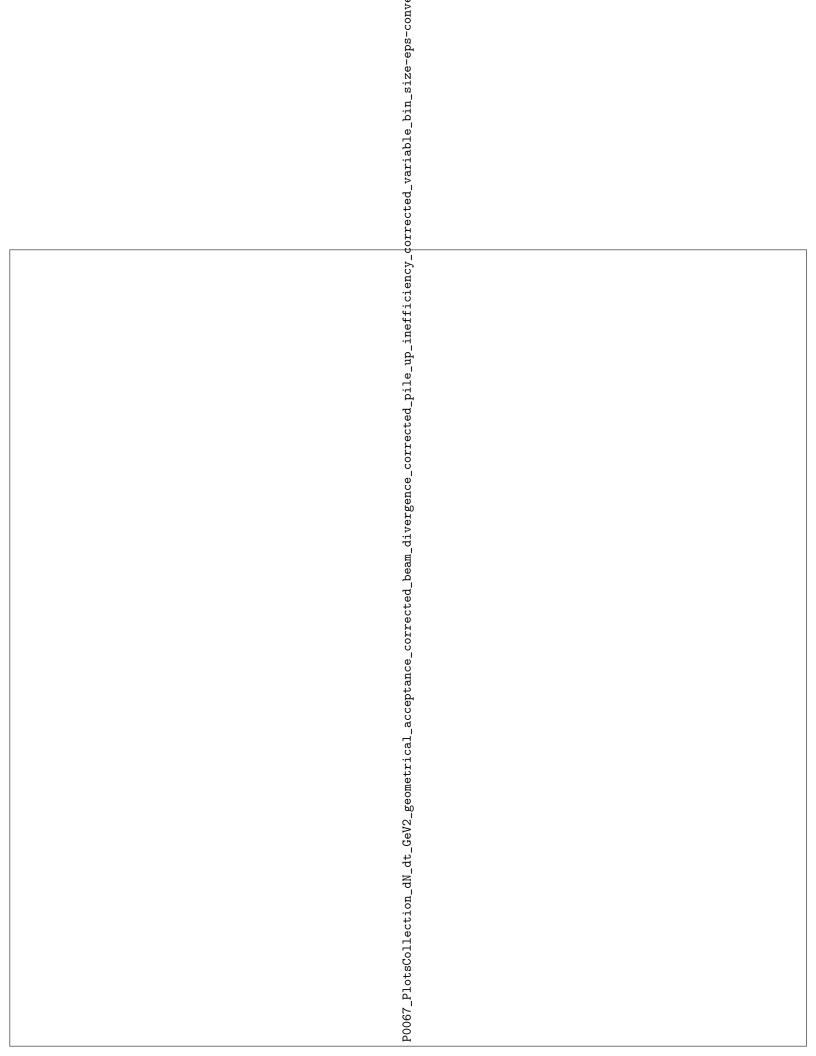


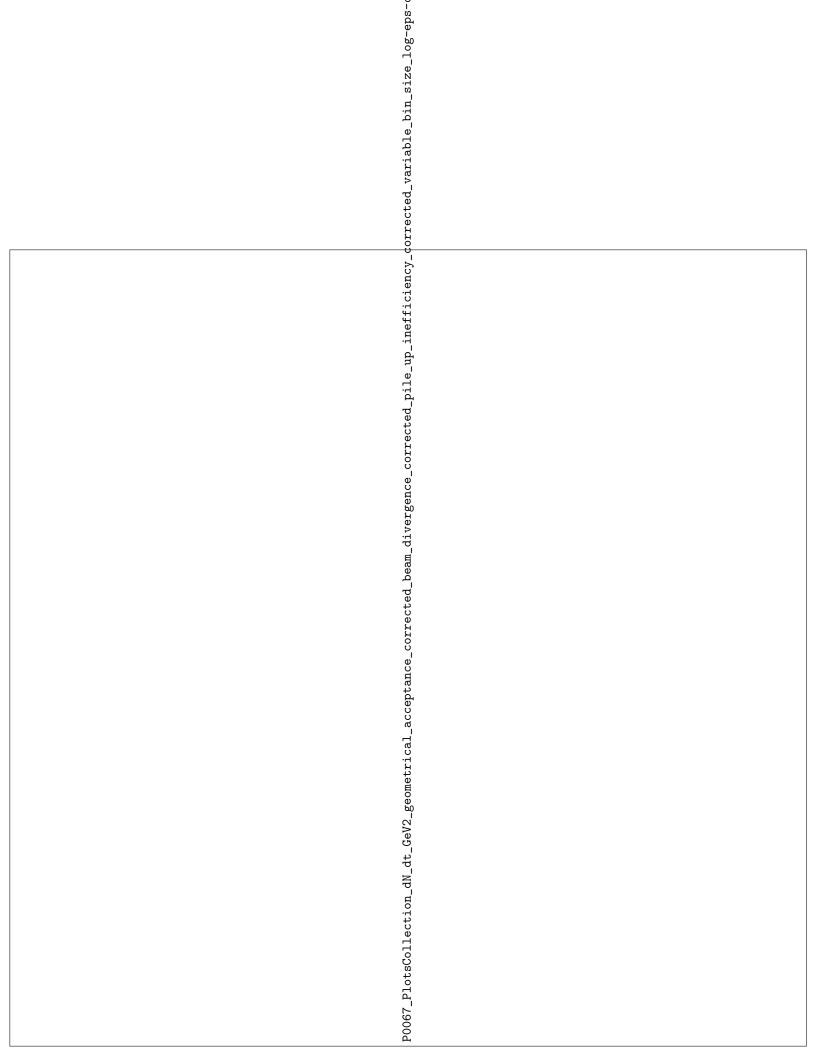


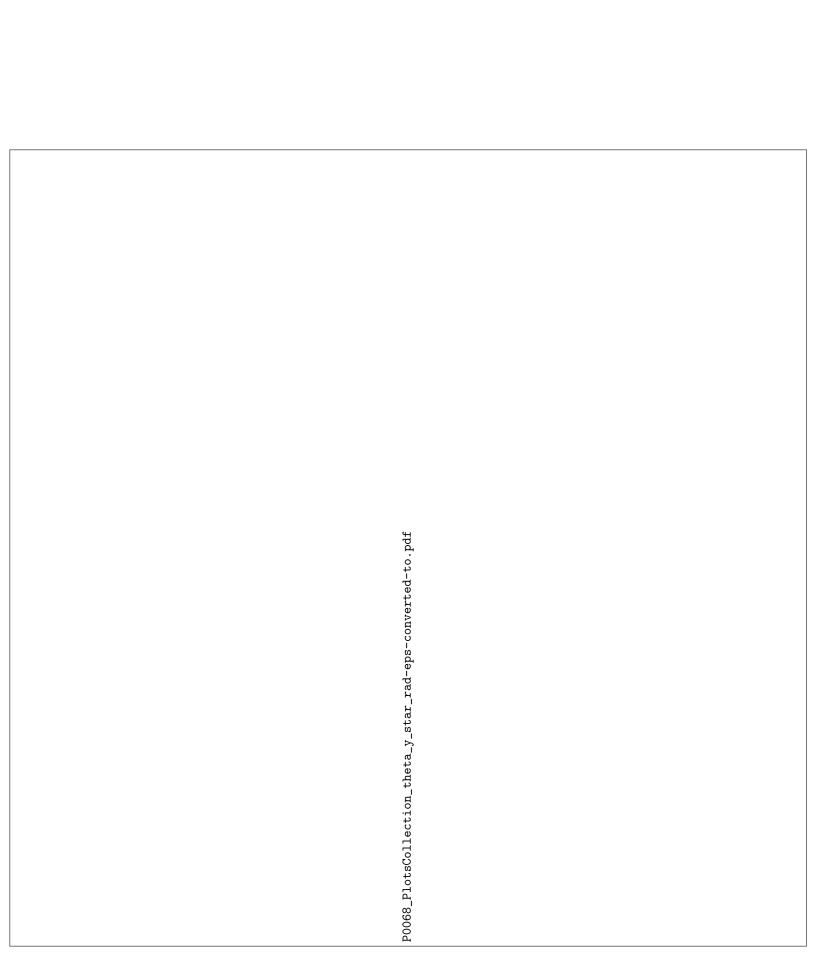


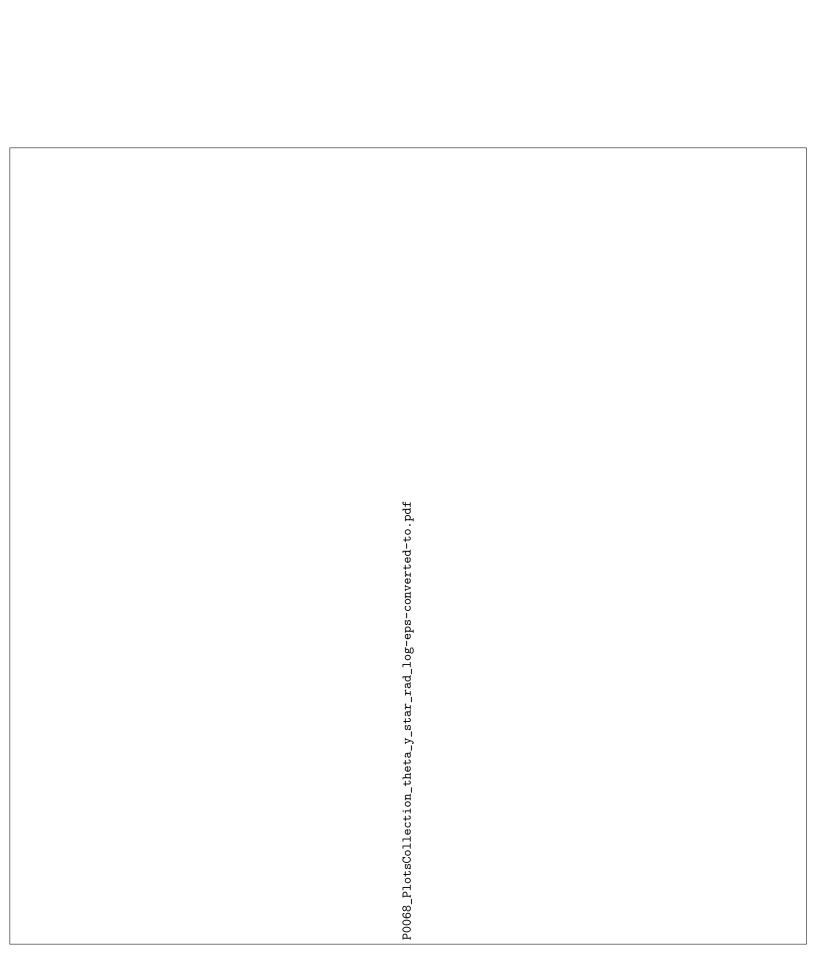


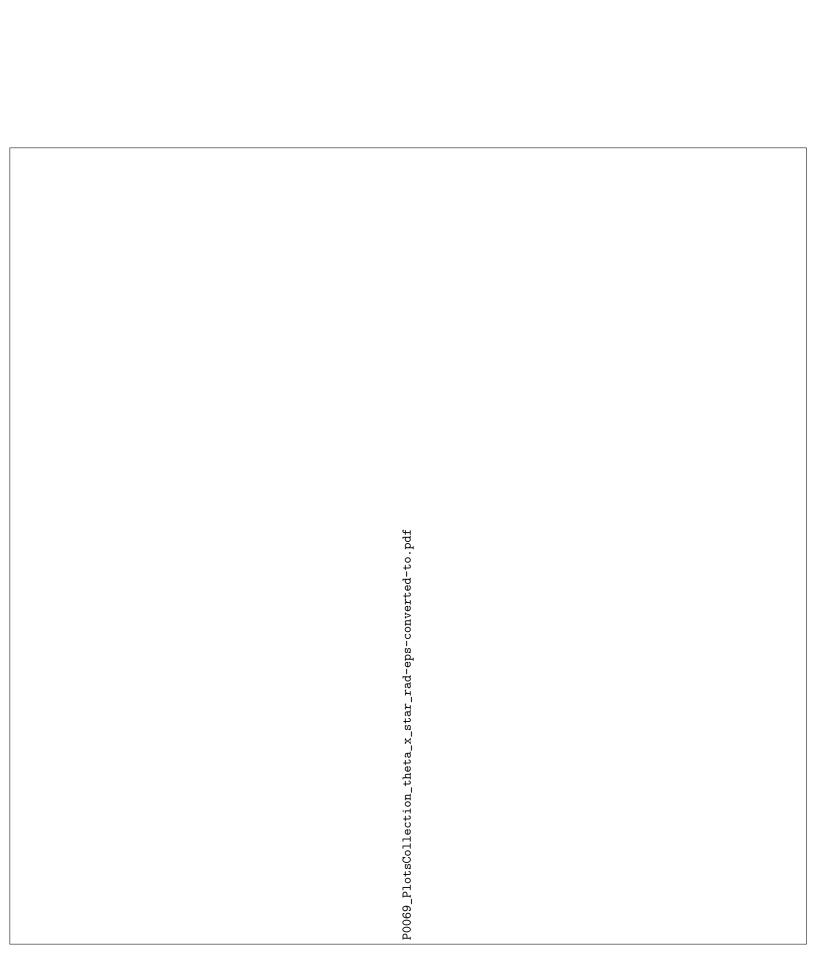


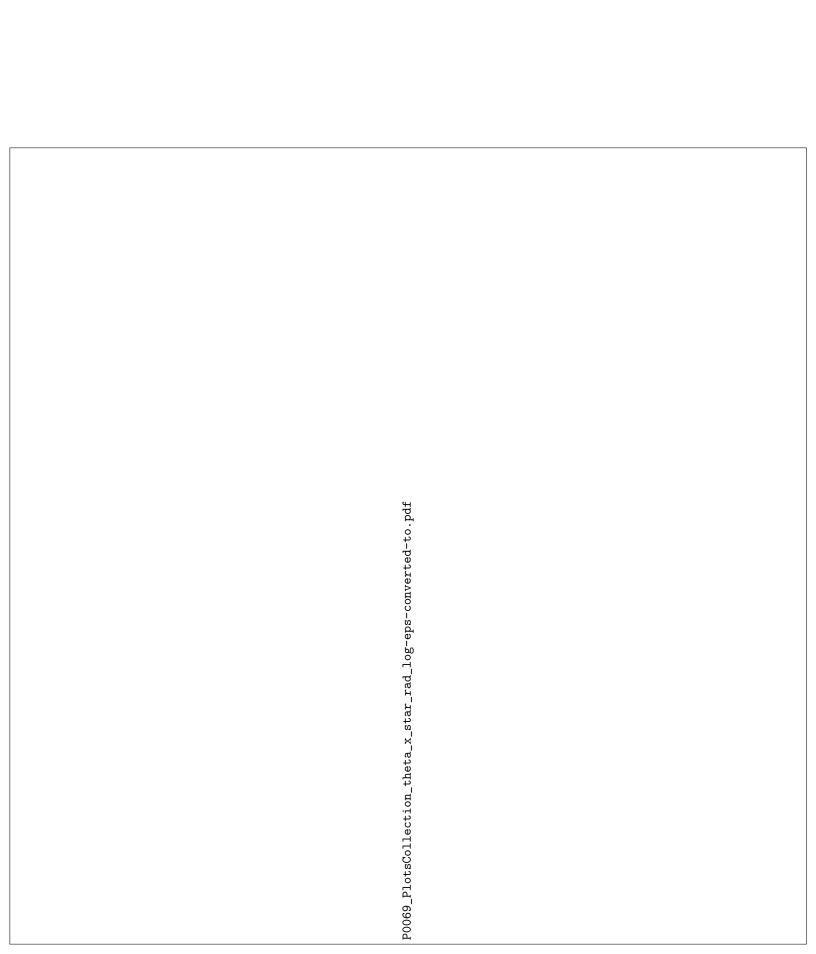


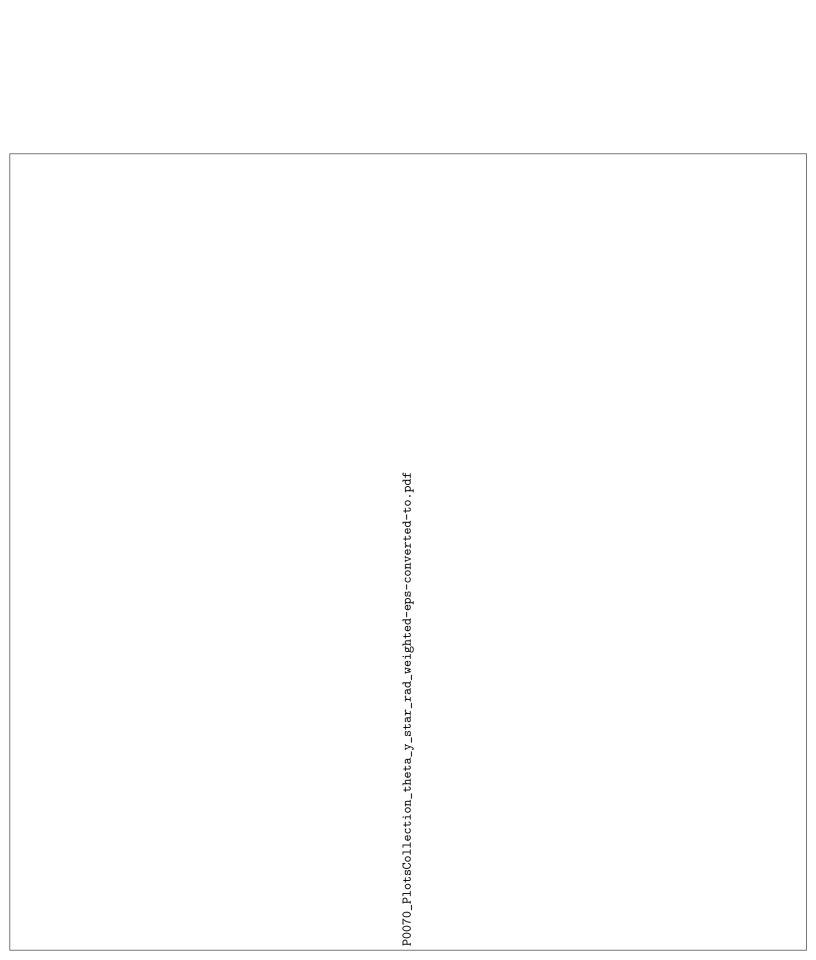


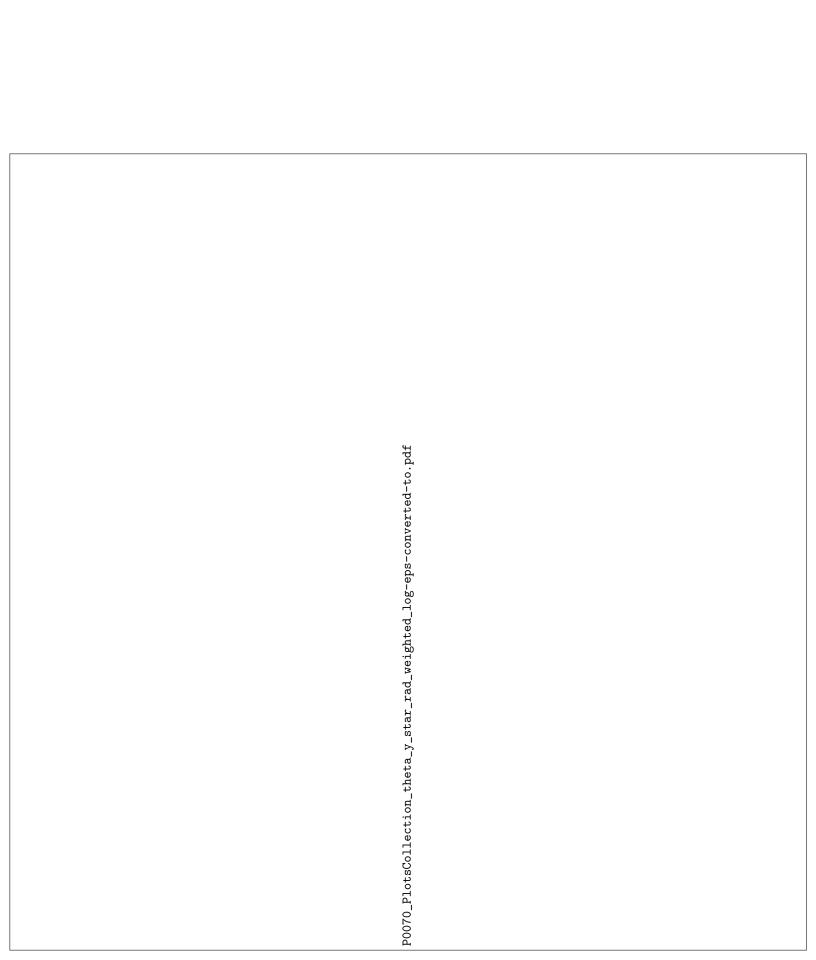


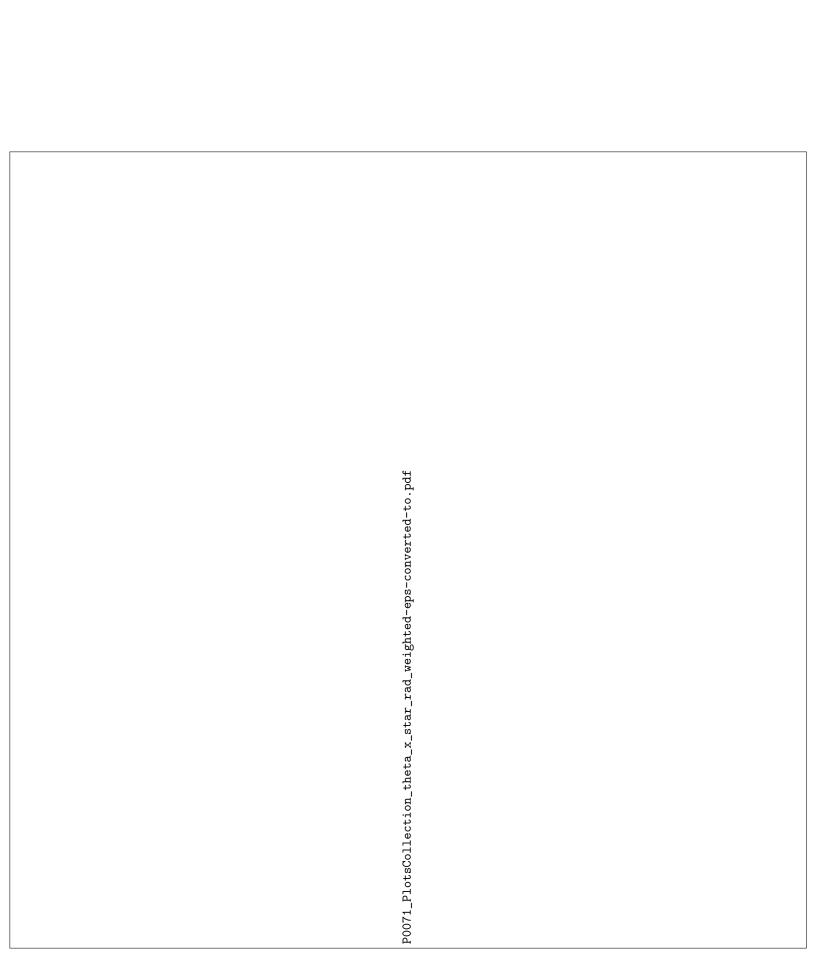


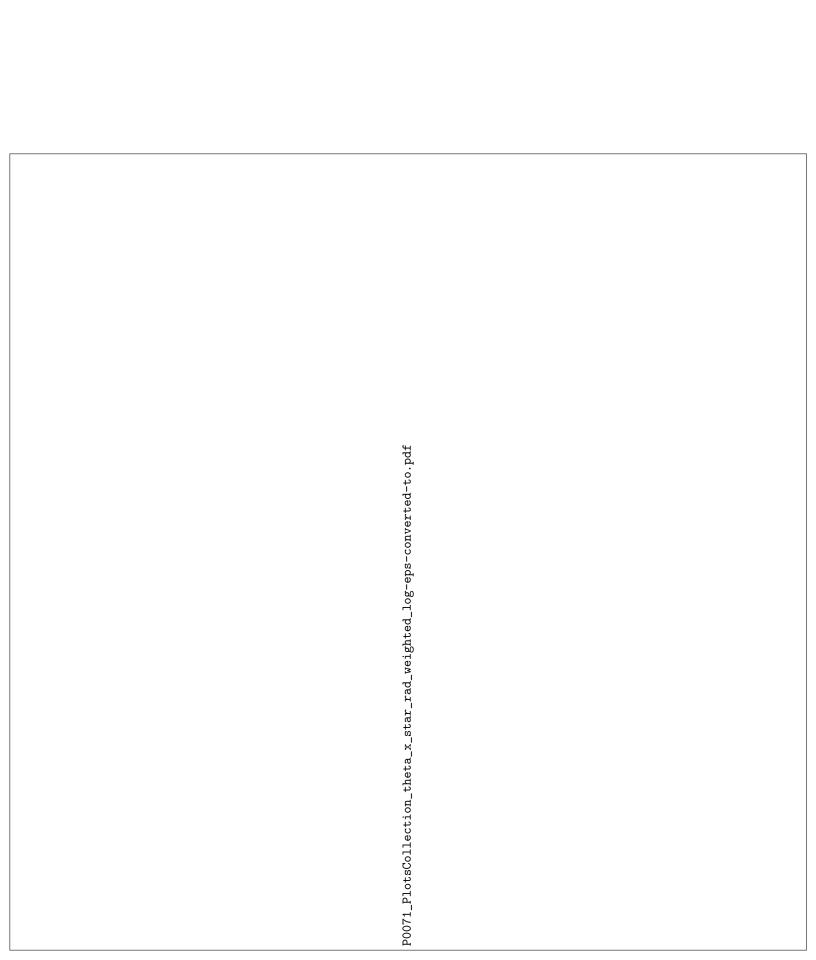


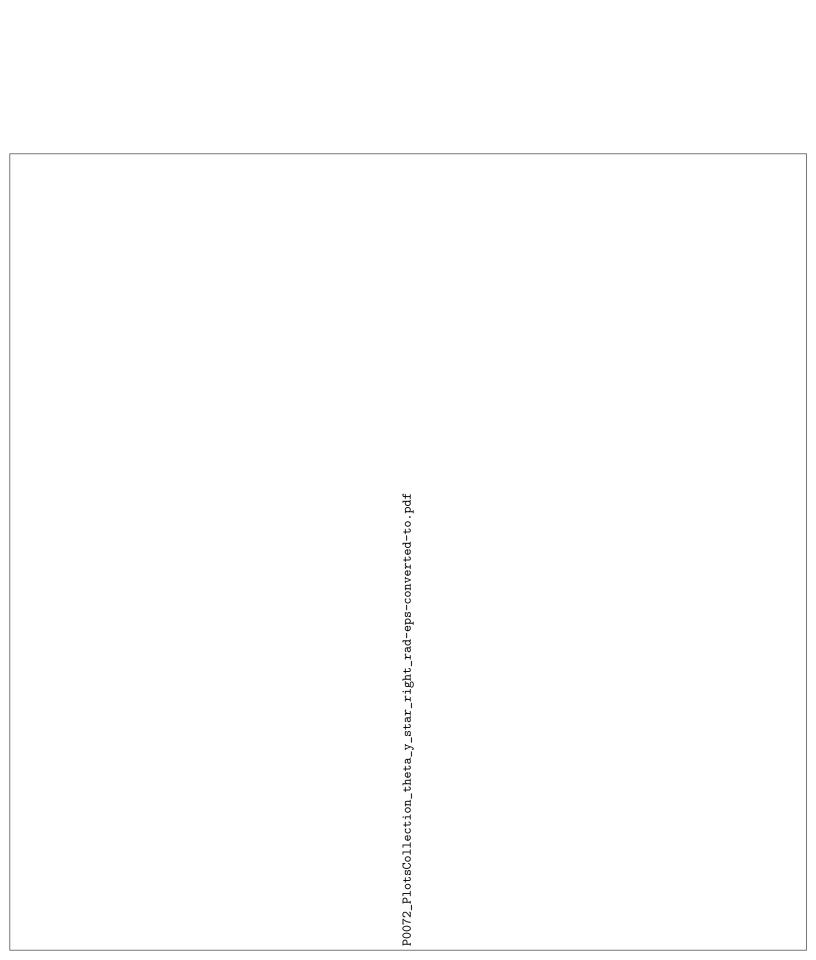


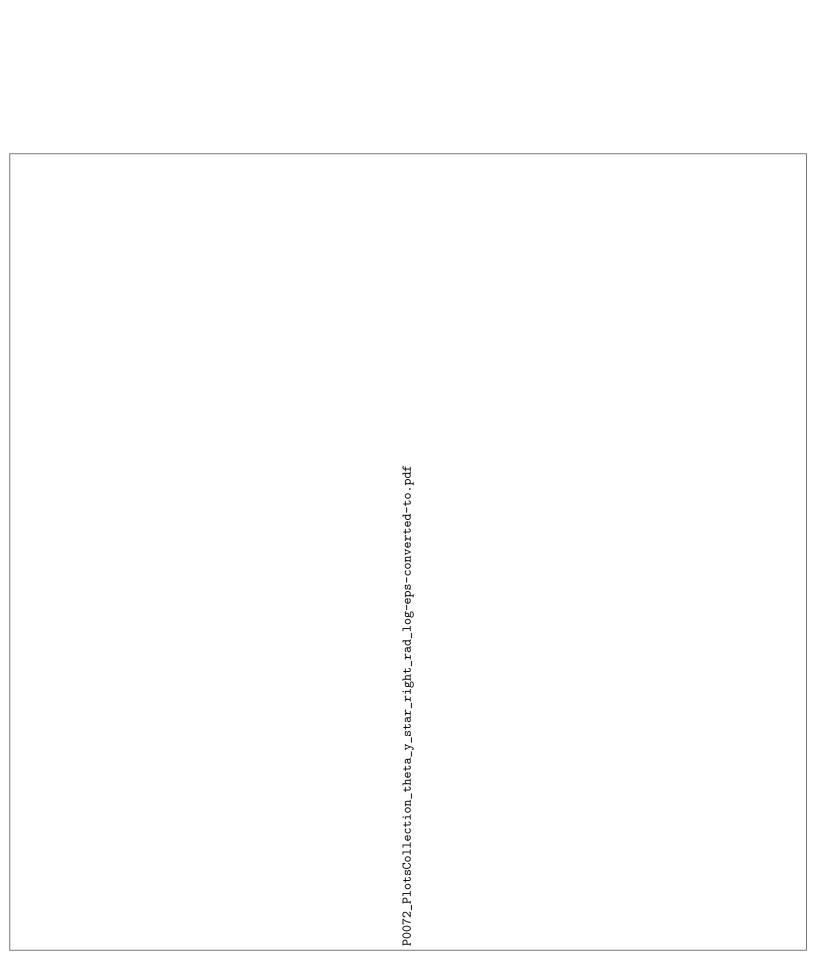


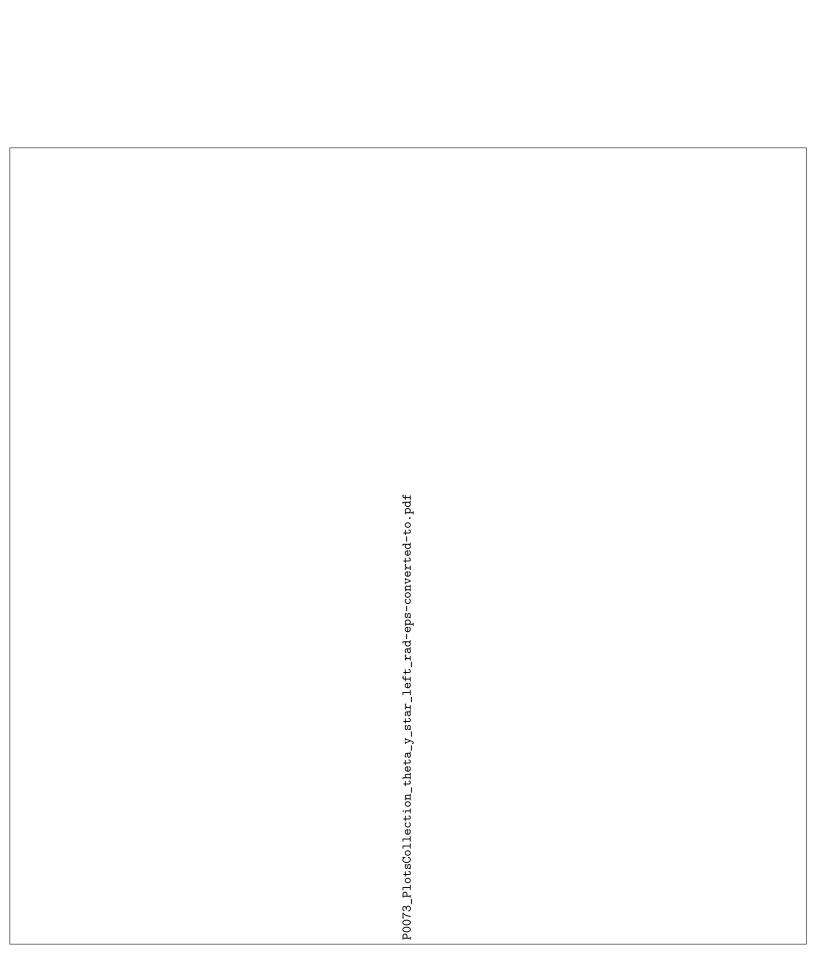


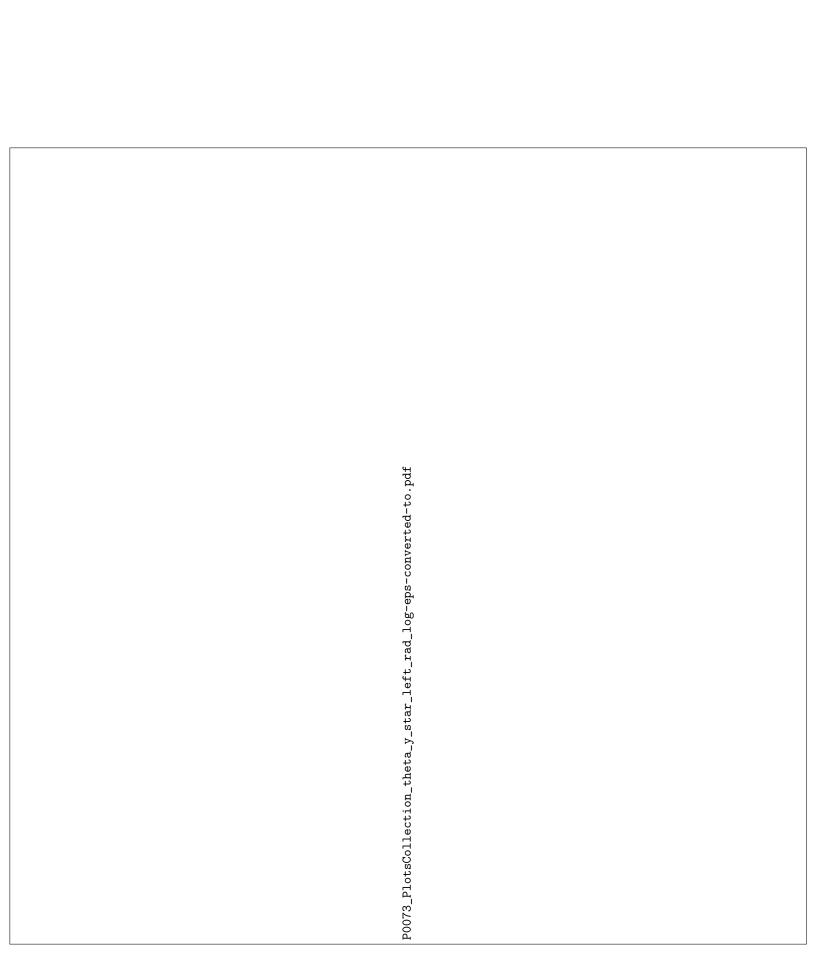












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9 Summary tables

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